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(FILE 'HOME' ENTERED AT 20:39:00 ON 16 SEP 2002)

FILE 'MEDLINE, BIOSIS' ENTERED AT 20:41:49 ON 16 SEP 2002

L1	5 S IL-17C
L2	3 DUP REM L1 (2 DUPLICATES REMOVED)
L3	0 S PRO1122
L4	16449 S (CHEN, J?)/AU
L5	2 S L1 AND L4
L6	1 S L2 AND L4
L7	0 S IL-171
L8	46 S IL-21
L9	38 DUP REM L8 (8 DUPLICATES REMOVED)
L10	0 S L9 AND IL-17
L11	18 S L9 AND PY<2000
L12	0 S PRO1031



EAST - [IL-17 homol (Chen).wsp:1]

FileViewEditToolsWindowHelp

Drafts

Pending

Active

- L4: (9) IL-17 adj (like homol\$ relat\$)
- L5: (103598) Chen
- L6: (49764) Chen.in.
- L8: (86) IL adj "21"
- L9: (5) 16 and IL-17
- L10: (5) 16 and IL adj "17"
- L7: (6) 16 and PRO1122

Failed

Saved

- (5) IL-17C
- (17) PRO1122
- (16) PRO1031

Favorites

Tagged (0)

UDC

Queue

Trash

Search: [ ] [ ] [ ] [ ] [ ]

DBs: [USPAT;US-PGPUB;EPO;JPO;DERWENT] [Plurals]

Default operator: [OR] [Highlight all hit terms initially]

16 and PRO1122

BRIS term

ISAR.htm

Image

Text

HTML

	U	1	Document ID	Issue Dat	Pages	Title	Current OR	Current XR	Retrieval	Inventor	S	C	P	3
1	<input type="checkbox"/>	<input type="checkbox"/>	US 20020127584	20020912	701	Secreted and transmembrane polypepti	435/6	435/183;		Baker, Kevin P. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20020106743	20020808		IL-17 homologous polypeptides and therap	435/69.52	435/320.1;		Chen, Jian et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20020052027	20020502		IL-17 homologous polypeptides and therap	435/69.5	435/320.1;		Chen, Jian et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20020010137	20010628		Novel PRO polypeptides homologous to interleuk		435/325;		ASHKENAZI, A et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20020010137	20000323		Novel nucleic acids encoding secreted and t		435/325;		ASHKENAZI, A et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20020052027	19991125		New polypeptides designated PRO1031 and				CHEN, J et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Ready

NUM



GenCore version 4.5  
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OM protein - protein search, using sw model

Run on: September 16, 2002, 15:41:36 ; Search time 30.37 seconds  
(without alignments)  
720.498 Million cell updates/sec

Title: US-09-854-208-3

Perfect score: 1073

Sequence: 1 MTLPLGLFLTLWLTCLAHH.....FHTEFIHVPVGTCTVLPKRSV 197

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 747574 seqs, 111073796 residues

Total number of hits satisfying chosen parameters: 747574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

A\_Geneseq\_032802.\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1073	100.0	197	21	AA18911
2	1073	100.0	197	21	AA18911
3	1073	100.0	197	21	AA18911
4	1073	100.0	197	21	AA18911
5	1073	100.0	197	21	AA18911
6	1073	100.0	197	21	AA18911
7	1073	100.0	197	21	AA18911
8	1073	100.0	197	21	AA18911
9	1073	100.0	197	21	AA18911
10	1073	100.0	197	21	AA18911
11	1073	100.0	197	21	AA18911

12	1063	99.1	227	22	AAE08676	Human interleukin
13	1061	98.9	227	22	AAE08680	Human interleukin
14	1061	98.9	227	22	AAE08682	Human interleukin
15	1060	98.8	227	22	AAE08681	Human interleukin
16	1060	98.8	227	22	AAE08685	Human interleukin
17	1059	98.7	227	22	AAE08684	Human interleukin
18	1059	98.7	227	22	AAE08687	Human interleukin
19	1058	98.6	227	22	AAE08679	Human interleukin
20	1058	98.6	227	22	AAE08683	Human interleukin
21	1058	98.6	227	22	AAE08686	Human interleukin
22	1055	98.3	227	22	AAE08690	Human interleukin
23	1054	98.2	227	22	AAE08688	Human interleukin
24	1054	98.2	227	22	AAE08689	Human interleukin
25	1054	98.2	227	22	AAE08691	Human interleukin
26	1054	98.2	227	22	AAE08693	Human interleukin
27	1054	98.2	227	22	AAE08695	Human interleukin
28	1054	98.2	227	22	AAE08697	Human interleukin
29	1054	98.2	227	22	AAE08699	Human interleukin
30	1054	98.2	227	22	AAE08701	Human interleukin
31	1054	98.2	227	22	AAE08703	Human interleukin
32	1053	98.1	227	22	AAE08692	Human interleukin
33	1053	98.1	227	22	AAE08694	Human interleukin
34	1053	98.1	227	22	AAE08696	Human interleukin
35	1053	98.1	227	22	AAE08698	Human interleukin
36	1053	98.1	227	22	AAE08700	Human interleukin
37	1053	98.1	227	22	AAE08702	Human interleukin
38	1034	96.4	223	22	AAE08677	Human mature inter
39	459	42.8	87	21	AA153890	Partial amino acid
40	459	42.8	87	22	AAE066119	Human interleukin
41	446	41.6	123	21	AAE07601	A human interleuki
42	446	41.6	123	21	AAE07683	A human interleuki
43	199	18.5	202	21	AAE07595	A human interleuki
44	199	18.5	202	21	AAE07689	A human interleuki
45	199	18.5	202	21	AAE07653	Human transforming

#### ALIGNMENTS

RESULT	1
AA18911	AA18911 standard; Protein; 197 AA.
ID	AA18911 standard; Protein; 197 AA.
XX	AA18911;
XX	AC
XX	08-FEB-2001 (first entry)
XX	A novel polypeptide designated PRO1122.
DE	Secreted protein; transmembrane protein; PRO1484; PRO4334; PRO1122;
XX	PRO1889; PRO1890; PRO1887; PRO1785; PRO4353; PRO4357; PRO4356;
KW	PRO4352; PRO4354; PRO4408; PRO5737; PRO4425; PRO5990; PRO6030;
KW	PRO4424; PRO4430; PRO4499; tumour; obesity; diabetes;
KW	insulinemia; kidney disorder; Bergers disease; nephropathy;
KW	Schönlein-Henoch purpura; celiac disease; dermatitis herpetiformis;
XX	Crohn's disease.
OS	Homo sapiens.
XX	
FT	Key
FT	Peptide
FT	Region
FT	Location/Qualifiers
FT	/note= "signal peptide"
FT	/note= "leucine zipper pattern"
FT	/note= "N-myristoylation site"
FT	/note= "N-myristoylation site"
FT	/note= "N-myristoylation site"
FT	/note= "tyrosine kinase phosphorylation site"
FT	/note= "tyrosine kinase phosphorylation site"
XX	
PN	WO200056889-A2.

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XX PD 28-SEP-2000.
XX PF 01-MAR-2000; 2000WO-US05601.
XX PR 23-MAR-1999; 99US-0125774.
XX PR 23-MAR-1999; 99US-0125778.
XX PR 24-MAR-1999; 99US-0125826.
XX PR 31-MAR-1999; 99US-0127035.
XX PR 05-APR-1999; 99US-0127706.
XX PR 21-APR-1999; 99US-0130359.
XX PR 27-APR-1999; 99US-0131270.
XX PR 27-APR-1999; 99US-0131272.
XX PR 27-APR-1999; 99US-0131291.
XX PR 04-MAY-1999; 99US-0132371.
XX PR 04-MAY-1999; 99US-0132379.
XX PR 04-MAY-1999; 99US-0132383.
XX PR 25-MAY-1999; 99US-0135750.
XX PR 08-JUN-1999; 99US-0138166.
XX PR 20-JUL-1999; 99US-0144791.
XX PR 03-AUG-1999; 99US-0146970.
XX PR 09-DEC-1999; 99US-0170262.
XX PR (GETH ) GENENTECH INC.
XX PI Desnoyers L, Eaton DL, Goddard A, Godowski PJ, Gurney AL, Pan J;
XX PI Stewart TA, Watanabe CK, Wood WI, Zhang Z;
XX DR WPI; 2000-628263/60.
XX DR N-PSDB; AAA96338.
XX PR
XX PR Novel secreted and transmembrane polypeptides useful for diagnosing
XX PR tumour in a mammal, for identifying agonists and antagonists of the
XX PR polypeptide and for therapeutic use .
XX PS Claim 12; Fig 6; 222pp; English.
XX PR
XX CC The present sequence represents a secreted or transmembrane polypeptide.
XX CC The specification describes polypeptides designated PRO1484, PRO4334,
XX CC PRO1122, PRO1889, PRO1890, PRO1785, PRO4353, PRO4357, PRO4405,
XX CC PRO4356, PRO4352, PRO4380, PRO4354, PRO4408, PRO5737, PRO4425, PRO5990,
XX CC PRO6030, PRO4424, PRO4422, PRO4430 and PRO4499. PRO1889 polypeptide is
XX CC useful for diagnosing tumour in a mammal. The polypeptides, their
XX CC agonists and antagonists are useful treating a condition associated with
XX CC expression or activity of the polypeptide. Conditions treated include
XX CC obesity, diabetes or hyper- or hypo-insulinemia. The polypeptides are
XX CC capable of inducing proliferation of mammalian kidney mesangial cells
XX CC and are therefore useful for treating kidney disorders associated with
XX CC decreased mesangial cell function such as Bergers disease or other
XX CC nephropathies associated with Schonlein-Henoch purpura, celiac disease,
XX CC dermatitis herpetiformis or Crohns disease. The nucleic acids may be used
XX CC to generate transgenic animals for use in development and screening of
XX CC therapeutically useful reagents and also for chromosome identification
XX CC and tissue typing.
XX SQ Sequence 197 AA;

Query Match 100.0%; Score 1073; DB 21; Length 197;
Best Local Similarity 100.0%; Pred. No. 4.6e-109;
Matches 197; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTLPLGLLFTLWHTCLAHHDPSLRGPHSHGTPHCYSAEELPLGQAPPHLLARGAKWGQ 60
DB 1 mtlplglflftlwtclahhdpslrgphshgtphcysaeelpgqapphllargakwgq 60
QY 61 ALPALVSSLEASHRGHERPSATTQCPLRPEEVLEADTHQRSISPWRYRVDTDDEY 120
DB 61 alpvalvssleashrghrherpsattqcpvlrpeevleadthqrsispwryrvdtdedry 120
QY 121 POKLAFACELRCGICDARTGRETAALNSVRLQSLVLRRLRRPCSDGSLPTGCAFAFHT 180
DB 121 pqklafaeclrcgcidartgreetaalnsvrlqslvllrrrrpcsdgsglptgafafht 180
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QY 181 EFTHVPVGCTCVLPRSV 197
DB 181 efihtvpvgctcvlprsv 197

RESULT 2
AAB07602
ID AAB07602 standard; Protein; 197 AA.
XX AC AAB07602;
XX DT 07-NOV-2000 (first entry)
XX DE A human interleukin (IL) 171 polypeptide.
XX KW Interleukin; IL-17; CTLA-8; IL-170; IL-172; IL-173; IL-174; IL-176;
XX KW IL-177; IL-171; cell proliferation; cancer.
XX OS Homo sapiens.
XX FH Key Location/Qualifiers
XX FT Peptide 1..17
XX FT /note= "signal peptide"
XX FT Protein 18..197
XX FT /note= "mature protein"
XX PN WO200042188-A2..
XX PD 20-JUL-2000.
XX PF 10-JAN-2000; 2000WO-US000006.
XX PR 11-JAN-1999; 99US-0228822.
XX PR (SCHE ) SCHERING CORP.
XX PI Gorman DM, Bazan JF, Kastelein RA;
XX DR WPI; 2000-466130/40.
XX DR N-PSDB; AAA58991.
XX PR New isolated polynucleotide encoding a mammalian Interleukin-17 like
XX PR protein used to identify genes for homologous proteins -
XX PS Disclosure; Page 20-21; 111pp; English.
XX CC The present sequence represents an interleukin-171 (IL-171) polypeptide.
XX CC The polypeptide is an IL-17-like (CTLA-8 related) protein. It is a
XX CC member of a new group of interleukins, IL-170 polypeptides. The members
XX CC comprise IL-172, IL-173, IL-174, IL-176, IL-177, and IL-171. IL-170
XX CC protein can be used to treat abnormal proliferation e.g. cancer
XX CC or degenerative conditions. Antibodies can be used in diagnostic
XX CC methods to detect over production of IL-170 protein in cells or body
XX CC fluids.
XX SQ Sequence 197 AA;

Query Match 100.0%; Score 1073; DB 21; Length 197;
Best Local Similarity 100.0%; Pred. No. 4.6e-109;
Matches 197; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTLPLGLLFTLWHTCLAHHDPSLRGPHSHGTPHCYSAEELPLGQAPPHLLARGAKWGQ 60
DB 1 mtlplglflftlwtclahhdpslrgphshgtphcysaeelpgqapphllargakwgq 60
QY 61 ALPALVSSLEASHRGHERPSATTQCPLRPEEVLEADTHQRSISPWRYRVDTDDEY 120
DB 61 alpvalvssleashrghrherpsattqcpvlrpeevleadthqrsispwryrvdtdedry 120
QY 121 POKLAFACELRCGICDARTGRETAALNSVRLQSLVLRRLRRPCSDGSLPTGCAFAFHT 180
DB 121 pqklafaeclrcgcidartgreetaalnsvrlqslvllrrrrpcsdgsglptgafafht 180
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Db 121 pqlafaelcrgcidartgretaalsnrvllqslvlrrrrpcsdrgslptpgafahft 180  
Qy 181 EFHVPVGCCTCVLPVS 197  
Db 181 efihipvgctcvlprsv 197  
RESULT 3  
ID AAB07684 standard; Protein; 197 AA.  
XX AAB07684;  
XX 07-NOV-2000 (first entry)  
XX A human interleukin-171 polypeptide.  
XX Interleukin; IL-171; cytokine; CTLA-8; IL-17; IL-175; IL-172; IL-173;  
KW IL-174; IL-176; IL-177; cell proliferation; cancer.  
XX Homo sapiens.  
XX Key Location/Qualifiers  
FT Peptide 1..17  
FT /note= "signal peptide"  
FT Protein 18..197  
FT /note= "mature protein"  
FT Modified-site 55..57  
FT /note= "putative glycosylation site"  
XX WO200042187-A1.  
PN XX  
XX 20-JUL-2000.  
XX 10-JAN-2000; 2000WO-US000005.  
XX 11-JAN-1999; 99US-0229402.  
XX (SCHE ) SCHERING CORP.  
XX Gorman DM, Bazan JF, Kastelein RA;  
XX WPI; 2000-476060/41.  
DR N-PSDB; AAA59149.  
XX New DNA sequence encoding a mammalian homolog of CTLA-8, designated  
PT interleukin-171 (IL-171), useful for recombinant production of IL-171  
PT which can be used for treating conditions associated with abnormal  
PT physiology or development -  
XX Claim 11; Page 10-11; 111pp; English.  
XX The present sequence represents an interleukin (IL)-171 polypeptide.  
CC It is a mammalian homologue of the cytokine designated CTLA-8 (also  
CC referred to as IL-17). The specification also describes homologues  
CC IL-171, IL-175, IL-172, IL-173, IL-174, IL-176, and IL-177. The DNA  
CC sequence encoding IL-171 is useful for identifying genes, mRNA and  
CC cDNA molecules which code for related or homologous proteins. The  
CC IL-171 protein, antibodies against IL-171, and compounds which have  
CC binding affinity to IL-171 are useful in treatment of conditions  
CC associated with abnormal physiology or development, including abnormal  
CC proliferation, e.g. cancerous conditions, or degenerative conditions.  
CC The IL-171 protein can be used in kits and assay methods for identifying  
CC compounds that selectively bind to IL-171.  
XX  
SQ Sequence 197 AA;  
Query Match 100.0%; Score 1073; DB 21; Length 197;  
Best Local Similarity 100.0%; Pred. No. 4.6e-109;  
Matches 197; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 MTLPLGLLFTLWLTCLAHHDPSLRGPHSHGTHPCYSAEELPLGQAPPHLLARGAKWGQ 60

Db 1 mtlplglflftwltclahhdpslrghshgtphcysaeelpgqapphllargakwgq 60  
Qy 61 ALPVALVSSLEAASHRGHRPPSATTCQPVLRPEEVLEADTHQRSISFWRYRVDTDDEY 120  
Db 61 alpvalvssleaaashrghrppsatqcpvlrpeevleadthqrsisfwryrvdtdedry 120  
Qy 121 POKLAFACELRCGICIDARTGRTAALNSVRLQLSLVLRRRPCSDRGSLPTPGAFAFHT 180  
Db 121 pqlafaelcrgcidartgretaalsnrvllqslvlrrrrpcsdrgslptpgafafht 180  
Qy 181 EFHVPVGCCTCVLPVS 197  
Db 181 efihipvgctcvlprsv 197  
RESULT 4  
ID AAY92238 standard; Protein; 197 AA.  
XX AAY92238;  
XX 10-AUG-2000 (first entry)  
XX Human interleukin-17 (IL-17) homologue.  
KW Interleukin 17; IL-17; haematopoiesis; chemotherapy; cytostatic;  
KW antianemic; cardiant; hemostatic; anti-inflammatory; anti-HIV.  
XX Homo sapiens.  
XX Key Location/Qualifiers  
FT Peptide 1..18  
FT /label= signal\_peptide  
FT Protein 19..197  
FT /label= mature\_protein  
XX WO200020593-A1.  
PN XX  
XX 13-APR-2000.  
XX 30-SEP-1999; 99WO-US22678.  
XX 02-OCT-1998; 98US-0102883.  
PR 01-DEC-1998; 98US-0110405.  
PR 11-JUN-1999; 99US-0138910.  
XX (ELIL ) LILLY & CO ELI.  
XX Glasebrook AL, Su EW, Wei J, Liu L;  
PI WPI; 2000-303778/26.  
DR N-PSDB; AAA09153.  
XX Nucleic acid encoding an interleukin-17 (IL-17) homolog polypeptide  
PT which enhances hematopoiesis, useful for treating e.g. anemia,  
PT thrombocytopenia, viral and bacterial infections  
XX Claim 16; Page 92-93; 111pp; English.  
XX Interleukin 17 (IL-17) stimulates hematopoiesis and production of  
CC neutrophils, granulocytes, or platelets, this may be useful during  
CC chemotherapy. IL-17 homologues have at least one activity selected  
CC from induction of cytotoxic T cells, induction of lymphokine-activated  
CC killer cell proliferation or a B or T cell stimulation. The IL-17  
CC homologue may also be used to treat viral or bacterial infections,  
CC immune related diseases, anemia, leukemia, thrombocytopenia, uremia,  
CC Von Willbrand disease, postoperative cardiovascular dysfunction,  
CC treatment of AIDS (acquired immune deficiency syndrome)-related bone  
CC marrow failure, and inflammatory diseases of the gastrointestinal  
CC system, joints, and lungs.  
XX Sequence 197 AA;

Query Match 100.0%; Score 1073; DB 21; Length 197;  
Best Local Similarity 100.0%; Pred. No. 4.6e-109;  
Matches 197; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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|||||  
Db 1 mtlpgllfltlwhtclahdprrlgrhphshgtphcysaeelpgqapphellargakwgq 60  
|||||

QY 61 ALPVALVSSLEAASHRGHERPSATTQCPVLRPEEVLEADTHQRSISPMRYRVDTDEDY 120  
|||||  
Db 61 alpvalvssleaaashrgnerpsattqcpvlrpeevleadthqrsispmryrvdtdedry 120  
|||||

QY 121 POKLAFACLCRGCIDARTGRTAALNSVRLIQSLVLRPPCRSDGSLPTPGAFAPFT 180  
|||||  
Db 121 pqklafaelcrgcidartgretaalnsvrlqlslvlrrppcsrdgsglptpgafafht 180  
|||||

QY 181 EFIHVPVGCCTVLPKRSV 197  
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Db 181 efihvpvgctcvlpkrsv 197  
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RESULT 5  
AAI44460  
ID AAY44460 standard; Protein: 197 AA.  
XX  
AC AAY44460;  
XX  
DT 27-MAR-2000 (first entry)  
XX  
DE Human Interleukin 17C, PRO1122 polypeptide.  
XX  
-KW Interleukin: IL-17C; PRO1122 polypeptide: clone DNA62377-1381-1; UNQ561;  
KW cytokine IL-17; cytotoxic T-lymphocyte-associated antigen 8; CTLA-8;  
KW hybridisation probe; antagonist; degenerative cartilaginous disorder;  
KW agonist; diagnosis; therapy.  
XX  
-OS Homo sapiens.  
XX  
FH Key Location/Qualifiers  
FT Peptide 1..18  
FT Protein 19..197  
FT FT /label= Mature\_IL-17C\_polypeptide  
FT FT /note= "Used to treat degenerative cartilaginous  
FT FT disorder"  
FT FT Misc-difference 109 /note= "Conserved Trp residue"  
FT FT Misc-difference 129 /note= "Conserved Cys residue"  
FT FT Misc-difference 134 /note= "Conserved Cys residue"  
FT FT Misc-difference 163 /note= "Conserved Cys residue"  
FT FT Misc-difference 189 /note= "Conserved Cys residue"  
FT FT Misc-difference 191 /note= "Conserved Cys residue"  
XX  
PN WO9960127-A2.  
XX  
PD 25-NOV-1999.  
XX  
PF 14-MAY-1999; 99WO-US10733.  
XX  
PR 15-MAY-1998; 98US-0085579.  
PR 23-DEC-1998; 98US-0113621.  
XX  
PA (GETH ) GENENTECH INC.  
XX  
PI Chen J, Filvaroff E, Goddard A, Gurney AL, Li H, Wood WI;  
XX

DR WPI; 2000-116314/10.  
XX N-PSDB; AAZ29728.  
PT New polypeptides designated PRO1031 and PRO1122 used to treat a  
degenerative cartilaginous disorder -  
XX Claim 23; Fig 3; 141pp; English.  
XX The present sequence is the human PRO1122 polypeptide, also referred to  
as UNQ561, and as interleukin-17C (IL-17C), encoded by  
CC clone DNA62377-1381-1. This sequence has identity with the  
CC cytokine IL-17 and cytotoxic T-lymphocyte-associated antigen 8 (CTLA-8)  
CC and has leucine zipper pattern. PRO1122 is expressed in pancreas, small  
CC intestine, stomach and testis also. It shares about 26-28% amino acid  
CC identity with IL-17 and IL-17B. The entire coding region of IL-17C can  
CC be used as hybridisation probe. The PRO1122 polypeptide, agonist or  
CC antagonist, is used to diagnose and treat a degenerative cartilaginous  
CC disorder.  
XX  
SQ Sequence 197 AA;  
Query Match 100.0%; Score 1073; DB 21; Length 197;  
Best Local Similarity 100.0%; Pred. No. 4.6e-109;  
Matches 197; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTLPGLLFLTWLHTCLAHDPRLGRHPHSGTTPHCYSAEELPLGQAPPHELLARGAKWGQ 60  
|||||  
Db 1 mtlpgllfltlwhtclahdprrlgrhphshgtphcysaeelpgqapphellargakwgq 60  
|||||

QY 61 ALPVALVSSLEAASHRGHERPSATTQCPVLRPEEVLEADTHQRSISPMRYRVDTDEDY 120  
|||||  
Db 61 alpvalvssleaaashrgnerpsattqcpvlrpeevleadthqrsispmryrvdtdedry 120  
|||||

QY 121 POKLAFACLCRGCIDARTGRTAALNSVRLIQSLVLRPPCRSDGSLPTPGAFAPFT 180  
|||||  
Db 121 pqklafaelcrgcidartgretaalnsvrlqlslvlrrppcsrdgsglptpgafafht 180  
|||||

QY 181 EFIHVPVGCCTVLPKRSV 197  
|||||  
Db 181 efihvpvgctcvlpkrsv 197  
|||||

RESULT 6  
AAI53892  
ID AAY53892 standard; Protein: 197 AA.  
XX  
AC AAY53892;  
XX  
DT 13-MAR-2000 (first entry)  
XX  
DE Amino acid sequence of human interleukin-21.  
XX  
KW Human; interleukin-22; IL-22; IL-21; immune system disorder;  
KW immune cell chemotaxis; haematopoietic cell disorder;  
KW haemostatic activity; thrombolytic activity; autoimmune disorder; asthma;  
KW respiratory problem; organ rejection; graft-versus-host disease; GVHD;  
KW inflammation; hyperproliferative disorder; tissue regeneration;  
KW embryonic stem cell differentiation; embryonic stem cell proliferation;  
KW haematopoietic lineage; allergic asthma.  
XX  
OS Homo sapiens.  
XX  
FH Key Location/Qualifiers  
FT Peptide 1..18 /note= "signal peptide"  
FT Domain 34..40 /note= "conserved domain V"  
FT Domain 63..68 /note= "conserved domain VI"  
FT Domain 104..109 /note= "conserved domain VII"  
FT Domain 113..121



```
FT      /note= "conserved domain I"
FT      129..134
FT      /note= "conserved domain II"
FT      156..162
FT      /note= "conserved domain III"
FT      185..192
FT      /note= "conserved domain IV"
XX
XX      WO9961617-A1.
XX
XX      02-DEC-1999.
XX
XX      27-MAY-1999; 99WO-US11644.
XX
XX      29-MAY-1998; 98US-0087340.
XX      10-SEP-1998; 98US-0099805.
XX      30-APR-1999; 99US-0131965.
XX
XX      (HUMA-) HUMAN GENOME SCI INC.
XX
XX      Ruben SM, Ebner R;
XX
XX      WPI: 2000-072622/06.
XX      N-PSDB; AA236836.
XX
XX      Novel polynucleotides used to develop products for treating e.g. immune
XX      disorders, blood disorders, autoimmune disorders, allergies,
XX      inflammation, hyperproliferative disorders or infections -
XX
XX      Claim 26; Fig 6A-B; 170pp; English.
XX
XX      The present sequence represents a human interleukin-21 (IL-21)
XX      protein. The specification also describes IL-22 polynucleotides and
XX      polypeptides. The IL-21 polynucleotide was isolated from a cDNA library
XX      of apoptotic T-cells. IL-21 and IL-22 may be useful in treating
XX      deficiencies or disorders of the immune system, by activating or
XX      inhibiting the proliferation, differentiation, or mobilization
XX      (chemotaxis) of immune cells, treating or detecting deficiencies or
XX      disorders of haematopoietic cells, to modulate haemostatic or
XX      thrombolytic activity, in treating or detecting autoimmune disorders,
XX      treating asthma (particularly allergic asthma) or other respiratory
XX      problems, to treat and/or prevent organ rejection or graft-versus-host
XX      disease (GVHD), to modulate inflammation, to treat or detect
XX      hyperproliferative disorders, to treat or detect infectious agents, to
XX      differentiate, proliferate and attract cells, leading to the
XX      regeneration of tissues, IL-21 and IL-22 may also increase or decrease
XX      the differentiation or proliferation of embryonic stem cells and
XX      haematopoietic lineage, may be used to modulate mammalian
XX      characteristics.
XX
XX      Sequence 197 AA;

Query Match      100.0%; Score 1073; DB 21; Length 197;
Best Local Similarity 100.0%; Pred. No. 4..6e-109;
Matches 197; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1      MTLPLGLLFTWLHTCLAHDPSLRGHPHSHGTPHCYSAEELPLGQAPPHLLARGAKWGQ 60
Db      1      mtlplgllflwtclahdpslrgphshgtpchysaeelp19gapphllargakwgq 60

QY      61      ALPALVSSLEAASHRGRHERPSATTQCPVLRPEEVLADTHQRTSIPWRYVDTDDEDRY 120
Db      61      alpvalvssleashrgrherpsattqcpvlrpeeveleadthqrsipwryvrdtdey 120

QY      121      PQKLAFACELRCGIDARTGRTAALNSVRLQLSLVLRPPCRSDGSLPTGCAFAFHT 180
Db      121      pqklafaelcrgcidartgretaalnsvrlqlslvlrppcrsdgslptpgafafht 180

QY      181      EFTHVPVGCTCVLPRSV 197
Db      181      eflhvpvgctcvlprsv 197
```

```
RESULT      7
AAG66121
ID      AAG66121 standard; Protein; 197 AA.
XX
XX      AAG66121;
AC
XX      13-MAR-2002 (first entry)
XX
XX      Human interleukin (IL)-21 amino acid sequence.
DE
XX
XX      Interleukin; IL-21; IL-22; immunosuppressive; cytostatic; thrombolytic;
KW      antiinflammatory; antibacterial; gene therapy; human.
XX
XX      Homo sapiens.
XX
XX      Key      Location/Qualifiers
XX      Peptide      1..18
XX      Protein      /note= "signal peptide"
XX      19..197
XX      Domain      /note= "mature protein"
XX      34..40
XX      Domain      /note= "conserved domain V"
XX      63..68
XX      Domain      /note= "conserved domain VI"
XX      104..109
XX      Domain      /note= "conserved domain VII"
XX      113..121
XX      Domain      /note= "conserved domain I"
XX      129..134
XX      Domain      /note= "conserved domain II"
XX      156..162
XX      Domain      /note= "conserved domain III"
XX      185..192
XX      Domain      /note= "conserved domain IV"
XX
XX      US2001023070-A1.
XX
XX      20-SEP-2001.
XX
XX      08-DEC-2000; 2000US-0731816.
XX
XX      29-MAY-1998; 98US-087340P.
XX      30-APR-1999; 99US-131965P.
XX      09-DEC-1999; 99US-169837P.
XX      27-MAY-1999; 99US-0320713.
XX      27-MAY-1999; 99WO-US11644.
XX
XX      (EBNE/) EBNER R.
XX      (RUBE/) RUBEN S M.
XX
XX      Ebner R, Ruben SM;
XX
XX      WPI: 2001-638470/73.
XX      N-PSDB; AAI67878.
XX
XX      New interleukin-21 and interleukin-22 polynucleotides and polypeptides,
XX      useful for treating, preventing or diagnosing e.g. disorders of
XX      hematopoietic cells, autoimmune disorders, or hyperproliferative
XX      diseases -
XX
XX      Claim 26; Fig 6A-B; 87pp; English.
XX
XX      The invention relates to novel human proteins designated interleukin
XX      (IL)-21 and IL-22. The IL-21 and IL-22 polynucleotides can be used in
XX      linkage analysis as a marker for those specific chromosome, in chromosome
XX      mapping, to control gene expression through triple helix formation or
XX      antisense DNA or RNA, in gene therapy, in identifying individuals from
XX      minute biological samples, as an alternative to restriction fragment
XX      length polymorphism (RFLP) analysis, as polymorphic markers for forensic
XX      purposes, as molecular weight markers, or as diagnostic probes. IL-21 and
XX      IL-22 polypeptides can be used to treat, prevent or diagnose diseases of
XX      the immune system by activating or inhibiting the proliferation,
```



QY 181 EFHVPVGCCTVLPVRSV 197  
 DB 181 efihvpvgctcvlprsv 197

RESULT 9  
 AAU04951  
 ID AAU04951 standard; Protein; 197 AA.  
 XX  
 AC AAU04951;  
 XX  
 DT 24-OCT-2001 (first entry)  
 XX  
 DE Human Interleukin 17C ligand, IL-17C.  
 XX  
 KW Human; Interleukin-17C ligand; IL-17C; agonist; antagonist;  
 KW PRO1122; DNA 62377-1381-1; systemic lupus erythematosus;  
 KW rheumatoid arthritis; osteoarthritis; diabetes mellitus;  
 KW allergic disease; asthma; demyelinating disease;  
 KW degenerative cartilaginous disorder; transplantation associated disease.  
 XX  
 OS Homo sapiens.  
 XX

Key Location/Qualifiers  
 FT Peptide 1..18  
 FT /label= Signal\_peptide  
 FT Region 3..25  
 FT /note= "Leucine zipper pattern"  
 FT Protein 19..197  
 FT /label= Mature\_IL\_17C  
 FT Region 32..38  
 FT /note= "N-myristoylation site"  
 FT Region 55..61  
 FT /note= "N-myristoylation site"  
 FT Region 99..125  
 FT /note= "Region homologous to IL-17"  
 FT Region 112..121  
 FT /note= "Tyrosine kinase phosphorylation site"  
 FT Region 133..139  
 FT /note= "N-myristoylation site"  
 XX  
 PN W0200146420-A2.  
 XX  
 PD 28-JUN-2001.  
 XX  
 PF 20-DEC-2000; 2000WO-US34956.  
 XX  
 PR 23-DEC-1999; 9905-0172096.  
 PR 30-DEC-1999; 99WO-US31274.  
 PR 11-JAN-2000; 2000US-0175481.  
 PR 18-FEB-2000; 2000WO-US04341.  
 PR 02-MAR-2000; 2000WO-US05841.  
 PR 21-MAR-2000; 2000US-0191007.  
 PR 21-MAR-2000; 2000WO-US07532.  
 PR 02-JUN-2000; 2000WO-US15264.  
 PR 22-JUN-2000; 2000US-0213087.  
 PR 22-AUG-2000; 2000US-0644848.  
 PR 24-AUG-2000; 2000WO-US23328.  
 PR 24-OCT-2000; 2000US-0242837.  
 PR 10-NOV-2000; 2000WO-US30873.  
 PR 28-NOV-2000; 2000US-0253646.  
 PR 01-DEC-2000; 2000WO-US32678.  
 XX  
 PA (GETH ) GENENTECH INC.  
 XX  
 PI Chen J, Filvaroff E, Fong S, Goddard A, Godowski PJ, Grimaldi CU;  
 PI Guney AL, Li H, Hillan KJ, Tumas D, Van Lookeren M, Vandel RL;  
 PI Watanabe CK, Williams PM, Wood WI, Yansura DG;  
 XX  
 DR WPI; 2001-451708/48.  
 DR N-PSDB; AAS09510.  
 XX

Novel PRO polypeptides homologous to interleukin-17, useful for the diagnosis and treatment of immune related disease e.g. rheumatoid arthritis and diabetes -

Claim 10; Fig 4; 188pp; English.

The sequence is PRO1122 which is the human Interleukin 17C ligand, IL-17C, encoded by DNA 62377-1381-1. A composition containing ant/agonists to the PRO polypeptides or individual components are useful for treating a mammal with an immune related disease, e.g. systemic lupus erythematosus, rheumatoid arthritis, osteoarthritis, juvenile chronic arthritis, a spondyloarthropathy, systemic sclerosis, an idiopathic inflammatory myopathy, Sjogren's syndrome, autoimmune vasculitis, sarcoidosis, thyroiditis, diabetes mellitus, immune-mediated renal thrombocytopenia, contact dermatitis, an autoimmune or immune-mediated skin disease, a demyelinating disease, an allergic disease e.g. food hypersensitivity, asthma, a transplantation associated disease, or a chronic inflammatory demyelinating polyneuropathy. Treating a degenerative cartilaginous disorder comprises administering a PRO1031 or PRO1122 polypeptide agonist, or antagonist to the mammal. Numerous examples of the diseases and disorders are given in the specification.

Sequence 197 AA;

Query Match 100.0%; Score 1073; DB 22; Length 197;  
 Best Local Similarity 100.0%; Pred. No. 4 6e-109;  
 Matches 197; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTLPLGLLFTWLHTCLAHHDPSLRGHPHSHGTPHCYSAEELPLGQAPPHLLARGAKWGQ 60  
 DB 1 mtlplgllftwlhtclahhdpslrghphshgtpchysaeelpgqapphllargakwgq 60  
 QY 61 ALPVALYSSLEAASHRGHRRPSATTQCPVLRPEEVLEADTHQRSISPWRVYRVDDEDY 120  
 DB 61 alpvalyssleashaahrgrrhrrpsattqcpvlrpeevleadthqrsisprwryrvdtdedy 120  
 QY 121 PQLAFACLCRCGICDARTGRTAALNSVRLQLLLVLRPPCRSDGSLPTPGAFAPHT 180  
 DB 121 pqlafaelcrgicidartgretaalnsrvllqslvllrrpcsdrgslptpgafafht 180  
 QY 181 EFHVPVGCCTVLPVRSV 197  
 DB 181 efihvpvgctcvlprsv 197

RESULT 10  
 AAU44485  
 ID AAU44485 standard; Protein; 206 AA.  
 XX  
 AC AAU44485;  
 XX  
 DT 27-MAR-2000 (first entry)  
 XX  
 DE Human Interleukin 17C with C-terminal Gly(His)8 tag, IL-17C.his.  
 XX  
 KW Interleukin: IL-17C.his; PRO1122 polypeptide; clone DNA62377-1381-1;  
 KW immunoprecipitation; IL-17 receptor extracellular domain; IL-17R ECD;  
 KW cytokine IL-17; hybridisation probe; antagonist; Gly(His)8 tag; agonist;  
 KW degenerative cartilaginous disorder; diagnosis; therapy.  
 XX  
 OS Homo sapiens.  
 XX

Key Location/Qualifiers  
 FT Peptide 1..18  
 FT /label= Signal\_peptide  
 FT Protein 19..197  
 FT /label= Mature\_IL-17C\_polypeptide  
 FT /note= "Used to treat degenerative cartilaginous disorder"  
 FT Misc-difference 109  
 FT /note= "Conserved Trp residue"

FT Misc-difference 129 /note= "Conserved Cys residue"  
FT Misc-difference 134 /note= "Conserved Cys residue"  
FT Misc-difference 163 /note= "Conserved Cys residue"  
FT Misc-difference 189 /note= "Conserved Cys residue"  
FT Misc-difference 191 /note= "Conserved Cys residue"  
FT Misc-difference 198..206 /note= "Conserved Cys residue"  
FT /note= "C-terminal Gly(His)8 tag"  
XX  
PN WO9960127-A2.  
XX  
PD 25-NOV-1999.  
XX  
PF 14-MAY-1999; 99WO-US10733.  
XX  
PR 15-MAY-1998; 98US-0085579.  
PR 23-DEC-1998; 98US-0113621.  
XX  
PA (GETH ) GENENTECH INC.  
XX  
PI Chen J, Filvaroff E, Goddard A, Gurney AL, Li H, Wood WI;  
XX  
DR WPI; 2000-116314/10.  
XX  
PT New polypeptides designated PRO1031 and PRO1122 used to treat a  
PT degenerative cartilaginous disorder -  
XX  
PS Example 11; Page 138-139; 141pp; English.  
XX  
-CC The present sequence is the human PRO1122 polypeptide, with a C-terminal  
CC Gly(His)8 tag, IL-17C his, derived from the clone DNA62377-1381-1.  
CC This sequence is used in a competitive binding experiment for the  
CC immunoprecipitation of IL-17 receptor extracellular domain (IL-17R ECD).  
-CC The entire coding region of IL-17C can be used as hybridisation probe.  
CC The PRO1122 polypeptide, agonist or antagonist, is used to diagnose and  
CC treat a degenerative cartilaginous disorder.  
XX  
SQ Sequence 206 AA;  
  
Query Match 100.0%; Score 1073; DB 21; Length 206;  
Best Local Similarity 100.0%; Pred. No. 4.9e-109;  
Matches 197; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1 MTLPLGLLFLTWLHTCLAHDPSSLRGHPHSHGTPHCYSAEELPLGQAPPHLLARGAKWGQ 60  
Db 1 mtlplgllfltlwhtclahdpslrgphshgtphcysaeelpigqapphllargakwgq 60  
  
QY 61 ALPVALVSSLEAASHRGHERPSATTQCPVLRPEEVLADTHQRSISPMRYRVDTDEDRY 120  
Db 61 alpvalvssleaaashrgherpsattqcpvlrpeeleadthqrsispmryrvdtdedry 120  
  
QY 121 POKLAFACLCRCIDARTGTRETAALNSVRLQLSVLLVLRPPCRSDGSLPTPGAFAPHT 180  
Db 121 pqklafaelclrcidartgtretaalnsvrlqlslvlrrppcrsdgslptpgafafht 180  
  
QY 181 EFHVPVGTCTVLPKRSV 197  
Db 181 efhvpvgctcvlprsv 197  
  
RESULT 11  
ID AAY44462  
XX  
AC AAY44462; standard; Protein; 425 AA.  
XX  
XX  
DT 27-MAR-2000 (first entry)  
XX

DE Human Interleukin 17C-IgG1 Fc fusion protein, hIL-17C.fc.  
XX  
KW Interleukin; IL-17C.fc; fusion protein; PRO1122 polypeptide; cytokine;  
KW human IgG1; fluorescence-activated cell sorter analysis; FACS;  
KW Tumour Necrosis Factor-alpha; TNF-alpha; leukemic monocyte; THP-1 cell.  
XX  
OS Homo sapiens.  
XX  
FH Key Location/Qualifiers  
FT Peptide 1..18  
FT Protein /label= Signal\_peptide  
FT 19..197  
FT /label= Mature\_IL-17C\_polypeptide  
FT /note= "Used to treat degenerative cartilaginous  
FT disorder"  
FT Misc-difference 109 /note= "Conserved Trp residue"  
FT Misc-difference 129 /note= "Conserved Cys residue"  
FT Misc-difference 134 /note= "Conserved Cys residue"  
FT Misc-difference 163 /note= "Conserved Cys residue"  
FT Misc-difference 189 /note= "Conserved Cys residue"  
FT Misc-difference 191 /note= "Conserved Cys residue"  
FT Region 197..425  
FT /note= "Sequence derived from Fc region of human IgG1"  
XX  
FN WO9960127-A2.  
XX  
XX 25-NOV-1999.  
XX  
PD 14-MAY-1999; 99WO-US10733.  
PF  
PR 15-MAY-1998; 98US-0085579.  
PR 23-DEC-1998; 98US-0113621.  
XX  
PA (GETH ) GENENTECH INC.  
XX  
XX Chen J, Filvaroff E, Goddard A, Gurney AL, Li H, Wood WI;  
XX WPI; 2000-116314/10.  
DR  
XX  
PT New polypeptides designated PRO1031 and PRO1122 used to treat a  
PT degenerative cartilaginous disorder -  
XX  
XX Example 12; Page 129-130; 141pp; English.  
PS  
XX  
CC The present sequence is the human IL-17C.fc fusion protein, derived from  
CC PRO1122 polypeptide and the Fc region of human IgG1. The cytokine IL-17C  
CC can be used to induce the release of TNF-alpha from human leukemic  
CC monocytic, THP-1 cells. The fusion protein, IL-17C.fc is used to identify  
CC the binding of IL-17C to THP-1 cells, using fluorescence-activated cell  
CC sorter analysis (FACS).  
XX  
SQ Sequence 425 AA;  
  
Query Match 100.0%; Score 1073; DB 21; Length 425;  
Best Local Similarity 100.0%; Pred. No. 1.3e-108;  
Matches 197; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1 MTLPLGLLFLTWLHTCLAHDPSSLRGHPHSHGTPHCYSAEELPLGQAPPHLLARGAKWGQ 60  
Db 1 mtlplgllfltlwhtclahdpslrgphshgtphcysaeelpigqapphllargakwgq 60  
  
QY 61 ALPVALVSSLEAASHRGHERPSATTQCPVLRPEEVLADTHQRSISPMRYRVDTDEDRY 120  
Db 61 alpvalvssleaaashrgherpsattqcpvlrpeeleadthqrsispmryrvdtdedry 120  
  
QY 121 POKLAFACLCRCIDARTGTRETAALNSVRLQLSVLLVLRPPCRSDGSLPTPGAFAPHT 180

|||||  
Db 121 pqlafaelcrgcidartgretaalnsrvllqslvlrrpcsdgsgiptgafht 180  
QY 181 EFHVPVGCVCVLPVRSV 197  
Db 181 efihvpvgctcvlprsv 197  
  
RESULT 12  
AAE08676  
ID AAE08676 standard; Protein; 227 AA.  
XX AAE08676;  
DT 15-NOV-2001 (first entry)  
XX Human interleukin (IL)-17 like protein.  
XX Human; Interleukin; IL-17 like protein; rheumatic disease; gene therapy;  
KW multiple sclerosis; graft versus host disease; inflammatory disease;  
KW asthma; autoimmune disease; allergy; graft rejection; bone destruction;  
KW drug screening; antiinflammatory; immunosuppressive; antiasthmatic;  
KW neuroprotective; antirheumatic; antiallergic.  
XX Homo sapiens.  
XX Key Location/Qualifiers  
FH Peptide 5..48  
FT /label= Signal\_peptide  
FT Protein 49..227  
FT /label= Mature\_human\_IL-17\_like protein  
XX WO200159120-A2.  
PN 16-AUG-2001.  
PD 07-FEB-2001; 2001WO-US03916.  
PF 08-FEB-2000; 2000US-0180864.  
PR 27-NOV-2000; 2000US-0722920.  
XX (AMGE-) AMGEN INC.  
XX Jing S, Bass MB;  
XX WPI; 2001-529841/58.  
XX N-PSDB; AADI5291.  
XX Novel interleukin-17 like polypeptides and nucleic acid molecules  
PT encoding them useful for diagnosis, prevention and treatment of  
PT inflammatory, autoimmune disease, allergies, asthma and organ or graft  
PT rejection -  
XX Claim 14; Fig 1A; 117pp; English.  
XX The present invention relates to interleukin (IL)-17 like polypeptides  
CC and nucleic acids encoding them. IL-17 like protein is useful for  
CC identifying binding partners, agonists and antagonists which can be used  
CC for treating one or more diseases or disorders and for cloning IL-17  
CC like receptors, using an expression cloning strategy. Radiolabelled or  
CC affinity/activity-tagged IL-17 proteins are useful in binding assays to  
CC identify a cell type or cell line or tissue that express IL-17 like  
CC receptors. A radiolabelled or tagged IL-17 like protein is useful as an  
CC affinity ligand to identify and isolate from an expression library the  
CC subset of cells which express the IL-17 like receptors on their surface.  
CC IL-17 like protein, agonist and antagonist are useful for treating acute  
CC and chronic inflammation such as rheumatic diseases, graft versus host  
CC disease and multiple sclerosis. IL-17 like antagonists are useful for  
CC treating and preventing inflammatory disease, autoimmune disease,  
CC allergies, asthma and organ or graft rejection in a patient and also  
CC for inhibiting T cell proliferation and/or activation, in vivo B cell  
CC proliferation or immunoglobulin secretion, and for blocking the effects  
CC of IL-17 in inducing bone destruction. IL-17 like molecule is useful in

CC gene therapy and for mapping the location of the IL-17 like gene and  
CC related genes on chromosomes, as hybridisation probes in diagnostic  
CC assays. Non-human animals in which the promoter for one or more of IL-17  
CC like protein is either activated or inactivated are useful for drug  
CC candidate screening. The present sequence is human IL-17 like protein.  
XX  
SQ Sequence 227 AA;  
  
Query Match 99.1%; Score 1063; DB 22; Length 227;  
Best Local Similarity 100.0%; Pred. No. 6.9e-108;  
Matches 195; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 3 LLPGLFLTWLHTCLAHDPFSLRGHPHSHGTPHCYSAEELPLGQAPPPLLARGAKWQAL 62  
Db 33 llpgllfltlwhtclahdpfslrgphshgtphcysaeelpgqapphllargakwqal 92  
  
QY 63 PVALVSSLEAASHRGHERPSATTQCVPVRPEEVLEADTHQRSISPWRYRVDTDEDYPO 122  
Db 93 pvalvssleaashrgherpsattqcpvlrpeevleadthqrsispwryrvdtdedryp 152  
  
QY 123 KLAFACELCRGCDARTGRTAALNSVRLQLSLVLRRCSDSGSLPTPGAFAFHTEF 182  
Db 153 klafaelcrgcidartgretaalnsrvllqslvlrrpcsdgsglptpgafafhtef 212  
  
QY 183 IHVPVGCTCVLPVRSV 197  
Db 213 ihvpvgctcvlprsv 227  
  
RESULT 13  
AAE08680  
ID AAE08680 standard; Protein; 227 AA.  
XX AAE08680;  
DT 15-NOV-2001 (first entry)  
XX Human interleukin (IL)-17 like protein mutant (Leu47Ile).  
DE Human; Interleukin; IL-17 like protein; rheumatic disease; gene therapy;  
KW multiple sclerosis; graft versus host disease; inflammatory disease;  
KW asthma; autoimmune disease; allergy; graft rejection; bone destruction;  
KW drug screening; antiinflammatory; immunosuppressive; antiasthmatic;  
KW neuroprotective; antirheumatic; antiallergic; mutant; mutein.  
XX Homo sapiens.  
XX Synthetic.  
XX Key Location/Qualifiers  
FH Misc-difference 47 /note= "Wild-type Leu substituted with Ile"  
FT  
FT  
XX WO200159120-A2.  
XX 16-AUG-2001.  
XX 07-FEB-2001; 2001WO-US03916.  
PR 08-FEB-2000; 2000US-0180864.  
PR 27-NOV-2000; 2000US-0722920.  
XX (AMGE-) AMGEN INC.  
XX Jing S, Bass MB;  
XX WPI; 2001-529841/58.  
XX Novel interleukin-17 like polypeptides and nucleic acid molecules  
PT encoding them useful for diagnosis, prevention and treatment of  
PT inflammatory, autoimmune disease, allergies, asthma and organ or graft  
PT rejection -  
XX

PS Claim 18; Page -: 117pp; English.

XX The present invention relates to interleukin (IL)-17 like polypeptides and nucleic acids encoding them. IL-17 like protein is useful for identifying binding partners, agonists and antagonists which can be used for treating one or more diseases or disorders and for cloning IL-17 like receptors, using an expression cloning strategy. Radiolabelled or affinity/activity-tagged IL-17 proteins are useful in binding assays to identify a cell type or cell line or tissue that express IL-17 like receptors. A radiolabelled or tagged IL-17 like protein is useful as an affinity ligand to identify and isolate from an expression library the subset of cells which express the IL-17 like receptors on their surface. IL-17 like protein, agonist and antagonist are useful for treating acute and chronic inflammation such as rheumatic diseases, graft versus host disease and multiple sclerosis. IL-17 like antagonists are useful for treating and preventing inflammatory disease, autoimmune disease, allergies, asthma and organ or graft rejection in a patient and also for inhibiting T cell proliferation and/or activation, in vivo B cell proliferation or immunoglobulin secretion, and for blocking the effects of IL-17 in inducing bone destruction. IL-17 like molecule is useful in gene therapy and for mapping the location of the IL-17 like gene and related genes on chromosomes, as hybridisation probes in diagnostic assays. Non-human animals in which the promoter for one or more of IL-17 like protein is either activated or inactivated are useful for drug candidate screening. The present sequence is human IL-17 like protein mutant (Leu47Ile).

CC Note: The present sequence is not shown in the specification, but is derived from the human IL-17 like protein referred to as SEQ ID NO:2 (AAE08676), shown in figure 1A.

XX Sequence 227 AA;

Query Match 98.9%; Score 1061; DB 22; Length 227;  
Best Local Similarity 99.5%; Pred. No. 1.1e-107;  
Matches 194; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 3 LLPGLLFTWLHTCLAHDPSLRGHPHSHGTPHCYSAEELPLGQAPPHLLARGAKWGQAL 62  
Db 33 llpgllflftwlhtclahdpshlrgphshgtpchysaeelpglgapphllargakwgqal 92

Qy 63 PVALVSSLEAASHRGRHERPSATTQCPVLRPEEVLADTHORSISPWRYVDTDedrypQ 122  
Db 93 pvalvssleaaashrgrherpsattqcpvlrpeeveleadthgrsispwryrvtddedrypQ 152

Qy 123 KLAFACLCRCIDARTGRETAALNSVRLQSLVLRRRPCSRDGSGLPTPGAFAFHTEF 182  
Db 153 klafaelcrgcidartgreetaalnsvrlqslvlrrrpsrdgsglptpgafafhtef 212

Qy 183 IHVPVGCVCVLPVRSV 197  
Db 213 ihvpvgctcvlprsv 227

RESULT 14  
AAE08682  
ID AAE08682 standard; Protein: 227 AA.  
XX  
AC AAE08682;  
XX  
DT 15-NOV-2001 (first entry)  
XX  
DE Human interleukin (IL)-17 like protein mutant (Leu47Met).  
KW Human; interleukin; IL-17 like protein; rheumatic disease; gene therapy;  
KW multiple sclerosis; graft versus host disease; inflammatory disease;  
KW asthma; autoimmune disease; allergy; graft rejection; bone destruction;  
KW drug screening; antinflammatory; immunosuppressive; antiasthmatic;  
KW neuroprotective; antirheumatic; antiallergic; mutant; mutein.  
XX  
OS Homo sapiens.  
OS Synthetic.

FH Key Location/Qualifiers  
FT Misc-difference 47 /note= "Wild-type Leu substituted with Met"  
XX  
PN WO200159120-A2.  
XX  
PD 16-AUG-2001.  
XX  
PF 07-FEB-2001; 2001WO-US03916.  
XX  
PR 08-FEB-2000; 2000US-0180864.  
XX  
PT 27-NOV-2000; 2000US-0722920.  
PA (AMGE-) AMGEN INC.  
PI Jing S, Bass MB;  
XX  
XX WPI: 2001-529841/58.  
DR  
XX Novel interleukin-17 like polypeptides and nucleic acid molecules encoding them useful for diagnosis, prevention and treatment of inflammatory, autoimmune disease, allergies, asthma and organ or graft rejection  
XX  
XX Claim 18; Page -: 117pp; English.  
XX  
CC The present invention relates to interleukin (IL)-17 like polypeptides and nucleic acids encoding them. IL-17 like protein is useful for identifying binding partners, agonists and antagonists which can be used for treating one or more diseases or disorders and for cloning IL-17 like receptors, using an expression cloning strategy. Radiolabelled or affinity/activity-tagged IL-17 proteins are useful in binding assays to identify a cell type or cell line or tissue that express IL-17 like receptors. A radiolabelled or tagged IL-17 like protein is useful as an affinity ligand to identify and isolate from an expression library the subset of cells which express the IL-17 like receptors on their surface. IL-17 like protein, agonist and antagonist are useful for treating acute and chronic inflammation such as rheumatic diseases, graft versus host disease and multiple sclerosis. IL-17 like antagonists are useful for treating and preventing inflammatory disease, autoimmune disease, allergies, asthma and organ or graft rejection in a patient and also for inhibiting T cell proliferation and/or activation, in vivo B cell proliferation or immunoglobulin secretion, and for blocking the effects of IL-17 in inducing bone destruction. IL-17 like molecule is useful in gene therapy and for mapping the location of the IL-17 like gene and related genes on chromosomes, as hybridisation probes in diagnostic assays. Non-human animals in which the promoter for one or more of IL-17 like protein is either activated or inactivated are useful for drug candidate screening. The present sequence is human IL-17 like protein mutant (Leu47Met).  
CC Note: The present sequence is not shown in the specification, but is derived from the human IL-17 like protein referred to as SEQ ID NO:2 (AAE08676), shown in figure 1A.  
XX  
SQ Sequence 227 AA;

Query Match 98.9%; Score 1061; DB 22; Length 227;  
Best Local Similarity 99.5%; Pred. No. 1.1e-107;  
Matches 194; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 3 LLPGLLFTWLHTCLAHDPSLRGHPHSHGTPHCYSAEELPLGQAPPHLLARGAKWGQAL 62  
Db 33 llpgllflftwlhtclahdpshlrgphshgtpchysaeelpglgapphllargakwgqal 92

Qy 63 PVALVSSLEAASHRGRHERPSATTQCPVLRPEEVLADTHORSISPWRYVDTDedrypQ 122  
Db 93 pvalvssleaaashrgrherpsattqcpvlrpeeveleadthgrsispwryrvtddedrypQ 152

Qy 123 KLAFACLCRCIDARTGRETAALNSVRLQSLVLRRRPCSRDGSGLPTPGAFAFHTEF 182  
Db 153 klafaelcrgcidartgreetaalnsvrlqslvlrrrpsrdgsglptpgafafhtef 212

QY 183 IHVPVGCVCVLPKRSV 197  
Db 213 ihvpvgctcvlprsv 227

## RESULT 15

AAE08681  
ID AAE08681 standard; Protein; 227 AA.

XX AC AAE08681;

XX DT 15-NOV-2001 (first entry)

XX DE Human interleukin (IL)-17 like protein mutant (Leu47Val).

XX KW Human: interleukin; IL-17 like protein; rheumatic disease; gene therapy;  
KW multiple sclerosis; graft versus host disease; inflammatory disease;  
KW asthma; autoimmune disease; allergy; graft rejection; bone destruction;  
KW drug screening; antiinflammatory; immunosuppressive; antiasthmatic;  
KW neuroprotective; antirheumatic; antiallergic; mutant; mutin.

XX OS Homo sapiens.

XX OS Synthetic.

XX FH Key Location/Qualifiers

XX FT Misc-difference 47 /note= "Wild-type Leu substituted with Val"

XX PN WO200159120-A2.

XX PD 16-AUG-2001.

XX PF 07-FEB-2001; 2001WO-US03916.

XX PR 08-FEB-2000; 2000US-0180864.

XX PR 27-NOV-2000; 2000US-0722920.

XX PA (AMGE-) AMGEN INC.

XX PI Jing S, Bass MB;

XX DR WPI; 2001-529841/58.

XX PT Novel interleukin-17 like polypeptides and nucleic acid molecules  
PT encoding them useful for diagnosis, prevention and treatment of  
PT inflammatory, autoimmune disease, allergies, asthma and organ or graft  
PT rejection

XX PS Claim 18; Page -: 117pp; English.

XX CC The present invention relates to interleukin (IL)-17 like polypeptides  
and nucleic acids encoding them. IL-17 like protein is useful for  
identifying binding partners, agonists and antagonists which can be used  
for treating one or more diseases or disorders and for cloning IL-17  
like receptors, using an expression cloning strategy. Radiolabelled or  
affinity/activity-tagged IL-17 proteins are useful in binding assays to  
identify a cell type or cell line or tissue that express IL-17 like  
receptors. A radiolabelled or tagged IL-17 like protein is useful as an  
affinity ligand to identify and isolate from an expression library the  
subset of cells which express the IL-17 like receptors on their surface.  
IL-17 like protein, agonist and antagonist are useful for treating acute  
and chronic inflammation such as rheumatic diseases, graft versus host  
disease and multiple sclerosis. IL-17 like antagonists are useful for  
treating and preventing inflammatory disease, autoimmune disease,  
allergies, asthma and organ or graft rejection in a patient and also  
for inhibiting T cell proliferation and/or activation, in vivo B cell  
proliferation or immunoglobulin secretion, and for blocking the effects  
of IL-17 in inducing bone destruction. IL-17 like molecule is useful in  
gene therapy and for mapping the location of the IL-17 like gene and  
related genes on chromosomes, as hybridisation probes in diagnostic  
assays. Non-human animals in which the promoter for one or more of IL-17  
like protein is either activated or inactivated are useful for drug  
candidate screening. The present sequence is human IL-17 like

CC protein mutant (Leu47Val).  
CC Note: The present sequence is not shown in the specification, but is  
CC derived from the human IL-17 like protein referred to as SEQ ID NO:2  
CC (AAE08676), shown in figure 1A.

XX SQ Sequence 227 AA;

Query Match 98.8%; Score 1060; DB 22; Length 227;  
Best Local Similarity 99.5%; Pred. No. 1.5e-107;  
Matches 194; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 LLPGLLELTWLTCLAHHDPSLRGHPHSHGTPHCYSAEELPLGQAPPPLHLAGAKWGQAL 62

Db 33 LLPGLLELTWLTCLAHHDPSLRGHPHSHGTPHCYSAEELPLGQAPPPLHLAGAKWGQAL 92

QY 63 PVALVSSLEAASHRGHERFSATTCQVLRPEEVLADTHQRSISPRYRVDTDEDYPO 122

Db 93 PVALVSSLEAASHRGHERFSATTCQVLRPEEVLADTHQRSISPRYRVDTDEDYPO 152

QY 123 KLAFACELCRGCDARTGRTAALNSVRLQLSLVLRERRPCSRDGSGLPTPGAFAPHTF 182

Db 153 KLAFACELCRGCDARTGRTAALNSVRLQLSLVLRERRPCSRDGSGLPTPGAFAPHTF 212

QY 183 IHVPVGCVCVLPKRSV 197

Db 213 ihvpvgctcvlprsv 227

## RESULT 16

AAE08685  
ID AAE08685 standard; Protein; 227 AA.

XX AC AAE08685;

XX DT 15-NOV-2001 (first entry)

XX DE Human interleukin (IL)-17 like protein mutant (Glu110Asp).

XX KW Human: interleukin; IL-17 like protein; rheumatic disease; gene therapy;  
KW multiple sclerosis; graft versus host disease; inflammatory disease;  
KW asthma; autoimmune disease; allergy; graft rejection; bone destruction;  
KW drug screening; antiinflammatory; immunosuppressive; antiasthmatic;  
KW neuroprotective; antirheumatic; antiallergic; mutant; mutin.

XX OS Homo sapiens.

XX OS Synthetic.

XX FH Key Location/Qualifiers

XX FT Misc-difference 110 /note= "Wild-type Glu substituted with Asp"

XX PN WO200159120-A2.

XX PD 16-AUG-2001.

XX PF 07-FEB-2001; 2001WO-US03916.

XX PR 08-FEB-2000; 2000US-0180864.

XX PR 27-NOV-2000; 2000US-0722920.

XX PA (AMGE-) AMGEN INC.

XX PI Jing S, Bass MB;

XX DR WPI; 2001-529841/58.

XX PT Novel interleukin-17 like polypeptides and nucleic acid molecules  
PT encoding them useful for diagnosis, prevention and treatment of  
PT inflammatory, autoimmune disease, allergies, asthma and organ or graft  
PT rejection

XX PS Claim 19; Page -: 117pp; English.

XX The present invention relates to interleukin (IL)-17 like polypeptides  
CC and nucleic acids encoding them. IL-17 like protein is useful for  
CC identifying binding partners, agonists and antagonists which can be used  
CC for treating one or more diseases or disorders and for cloning IL-17  
CC like receptors, using an expression cloning strategy. Radiolabelled or  
CC affinity/activity-tagged IL-17 proteins are useful in binding assays to  
CC identify a cell type or cell line or tissue that express IL-17 like  
CC receptors. A radiolabelled or tagged IL-17 like protein is useful as an  
CC affinity ligand to identify and isolate from an expression library the  
CC subset of cells which express the IL-17 like receptors on their surface.  
CC IL-17 like protein, agonist and antagonist are useful for treating acute  
CC and chronic inflammation such as rheumatic diseases, graft versus host  
CC disease and multiple sclerosis. IL-17 like antagonists are useful for  
CC treating and preventing inflammatory disease, autoimmune disease,  
CC allergies, asthma and organ or graft rejection in a patient and also  
CC for inhibiting T cell proliferation and/or activation, in vivo B cell  
CC proliferation or immunoglobulin secretion, and for blocking the effects  
CC of IL-17 in inducing bone destruction. IL-17 like molecule is useful in  
CC gene therapy and for mapping the location of the IL-17 like gene and  
CC related genes on chromosomes, as hybridisation probes in diagnostic  
CC assays. Non-human animals in which the promoter for one or more of IL-17  
CC like protein is either activated or inactivated are useful for drug  
CC candidate screening. The present sequence is human IL-17 like  
CC protein mutant (Glul0A5p).  
CC Note: The present sequence is not shown in the specification, but is  
CC derived from the human IL-17 like protein referred to as SEQ ID NO:2  
CC (AAE08676), shown in figure 1A.

XX Sequence 227 AA;

Query Match 98.8%; Score 1060; DB 22; Length 227;  
Best Local Similarity 99.5%; Pred. No. 1.5e-107;  
Matches 194; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
QY 3 LLPGLFLTWLHTCLAHDPSLRGHPHSHGTPHCYSAEELPLGQAPPHLLARGAKWGQAL 62  
Db 33 LLPGLFLTWLHTCLAHDPSLRGHPHSHGTPHCYSAEELPLGQAPPHLLARGAKWGQAL 92  
QY 63 PVALVSSLEAASHRGHRERPSATTQCPVLRPEEVLADTHQRSISPWRYRVDTEDRYPQ 122  
Db 93 PVALVSSLEAASHRGHRERPSATTQCPVLRPEEVLADTHQRSISPWRYRVDTEDRYPQ 152  
QY 123 KLAFACLCRGCIDARTGRETAAALNSVRLQLSLLVLRPPCRSDGSLPTPGAFATFTEF 182  
Db 153 klafaelcrgcidartgretaaalnsrvllqslvlrrprcsrdgslptpgafafhtef 212  
QY 183 IHVPVGTCTVLPRSV 197  
Db 213 ihvpvgctcvlprsv 227

RESULT 17  
AAE08684  
ID AAE08684 standard; Protein; 227 AA.

XX AAE08684;  
XX 15-NOV-2001 (first entry)

XX Human interleukin (IL)-17 like protein mutant (Leu47Phe).  
DE Human; interleukin; IL-17 like protein; rheumatic disease; gene therapy;  
KW multiple sclerosis; graft versus host disease; inflammatory disease;  
KW asthma; autoimmune disease; allergy; graft rejection; bone destruction;  
KW drug screening; antiinflammatory; immunosuppressive; antiasthmatic;  
KW neuroprotective; antirheumatic; antiallergic; mutant; mutein.  
XX Homo sapiens.  
OS Synthetic.

XX Key Location/Qualifiers

FT Misc-difference 47 /note= "Wild-type Leu substituted with Phe"  
FT XX WO200159120-A2.  
PN XX 16-AUG-2001.  
PD XX 07-FEB-2001; 2001WO-US03916.  
PF XX 08-FEB-2000; 2000US-0180864.  
PR XX 27-NOV-2000; 2000US-0722920.  
PS (AMGE-) AMGEN INC.  
XX Jing S, Bass MB;  
XX WPI; 2001-529841/58.  
XX Novel interleukin-17 like polypeptides and nucleic acid molecules  
PT encoding them useful for diagnosis, prevention and treatment of  
PT inflammatory, autoimmune disease, allergies, asthma and organ or graft  
PT rejection  
XX Claim 18; Page -: 117pp; English.  
XX The present invention relates to interleukin (IL)-17 like polypeptides  
CC and nucleic acids encoding them. IL-17 like protein is useful for  
CC identifying binding partners, agonists and antagonists which can be used  
CC for treating one or more diseases or disorders and for cloning IL-17  
CC like receptors, using an expression cloning strategy. Radiolabelled or  
CC affinity/activity-tagged IL-17 proteins are useful in binding assays to  
CC identify a cell type or cell line or tissue that express IL-17 like  
CC receptors. A radiolabelled or tagged IL-17 like protein is useful as an  
CC affinity ligand to identify and isolate from an expression library the  
CC subset of cells which express the IL-17 like receptors on their surface.  
CC IL-17 like protein, agonist and antagonist are useful for treating acute  
CC and chronic inflammation such as rheumatic diseases, graft versus host  
CC disease and multiple sclerosis. IL-17 like antagonists are useful for  
CC treating and preventing inflammatory disease, autoimmune disease,  
CC allergies, asthma and organ or graft rejection in a patient and also  
CC for inhibiting T cell proliferation and/or activation, in vivo B cell  
CC proliferation or immunoglobulin secretion, and for blocking the effects  
CC of IL-17 in inducing bone destruction. IL-17 like molecule is useful in  
CC gene therapy and for mapping the location of the IL-17 like gene and  
CC related genes on chromosomes, as hybridisation probes in diagnostic  
CC assays. Non-human animals in which the promoter for one or more of IL-17  
CC like protein is either activated or inactivated are useful for drug  
CC candidate screening. The present sequence is human IL-17 like  
CC protein mutant (Leu47Phe).  
CC Note: The present sequence is not shown in the specification, but is  
CC derived from the human IL-17 like protein referred to as SEQ ID NO:2  
CC (AAE08676), shown in figure 1A.

XX Sequence 227 AA;

Query Match 98.7%; Score 1059; DB 22; Length 227;  
Best Local Similarity 99.5%; Pred. No. 1.9e-107;  
Matches 194; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 3 LLPGLFLTWLHTCLAHDPSLRGHPHSHGTPHCYSAEELPLGQAPPHLLARGAKWGQAL 62  
Db 33 LLPGLFLTWLHTCLAHDPSLRGHPHSHGTPHCYSAEELPLGQAPPHLLARGAKWGQAL 92  
QY 63 PVALVSSLEAASHRGHRERPSATTQCPVLRPEEVLADTHQRSISPWRYRVDTEDRYPQ 122  
Db 93 PVALVSSLEAASHRGHRERPSATTQCPVLRPEEVLADTHQRSISPWRYRVDTEDRYPQ 152  
QY 123 KLAFACLCRGCIDARTGRETAAALNSVRLQLSLLVLRPPCRSDGSLPTPGAFATFTEF 182  
Db 153 klafaelcrgcidartgretaaalnsrvllqslvlrrprcsrdgslptpgafafhtef 212  
QY 183 IHVPVGTCTVLPRSV 197



Db 213 ihvpvgctcvlprsv 227

## RESULT 18

AAE08687  
ID AAE08687 standard; Protein; 227 AA.

AC AAE08687;

DT 15-NOV-2001 (first entry)

XX Human interleukin (IL)-17 like protein mutant (Tyr141Phe).

DE Human; interleukin; IL-17 like protein; rheumatic disease; gene therapy;  
KW multiple sclerosis; graft versus host disease; inflammatory disease;  
KW asthma; autoimmune disease; allergy; graft rejection; bone destruction;  
KW drug screening; antiinflammatory; immunosuppressive; antidiabetic;  
KW neuroprotective; antirheumatic; antiallergic; mutant; muten.

XX Homo sapiens.

OS Synthetic.

XX Key Location/Qualifiers

FH Misc-difference 141

FT /note= "Wild-type Tyr substituted with Phe"

FT WO200159120-A2.

PN 16-AUG-2001.

XX 07-FEB-2001; 2001WO-US03916.

XX 08-FEB-2000; 2000US-0180864.

PR 27-NOV-2000; 2000US-0722920.

XX (AMGE-) AMGEN INC.

XX Jing S, Bass MB;

XX WPI; 2001-529841/58.

XX Novel interleukin-17 like polypeptides and nucleic acid molecules  
PT encoding them useful for diagnosis, prevention and treatment of  
PT inflammatory, autoimmune disease, allergies, asthma and organ or graft  
PT rejection

XX Claim 20; Page -; 117pp; English.

XX The present invention relates to interleukin (IL)-17 like polypeptides  
CC and nucleic acids encoding them. IL-17 like protein is useful for  
CC identifying binding partners, agonists and antagonists which can be used  
CC for treating one or more diseases or disorders and for cloning IL-17  
CC like receptors, using an expression cloning strategy. Radiolabelled or  
CC affinity/activity-tagged IL-17 proteins are useful in binding assays to  
CC identify a cell type or cell line or tissue that express IL-17 like  
CC receptors. A radiolabelled or tagged IL-17 like protein is useful as an  
CC affinity ligand to identify and isolate from an expression library the  
CC subset of cells which express the IL-17 like receptors on their surface.  
CC IL-17 like protein, agonist and antagonist are useful for treating acute  
CC and chronic inflammation such as rheumatic diseases, graft versus host  
CC disease and multiple sclerosis. IL-17 like antagonists are useful for  
CC treating and preventing inflammatory disease, autoimmune disease,  
CC allergies, asthma and organ or graft rejection in a patient and also  
CC for inhibiting T cell proliferation and/or activation, in vivo B cell  
CC proliferation or immunoglobulin secretion, and for blocking the effects  
CC of IL-17 in inducing bone destruction. IL-17 like molecule is useful in  
CC gene therapy and for mapping the location of the IL-17 like gene and  
CC related genes on chromosomes, as hybridisation probes in diagnostic  
CC assays. Non-human animals in which the promoter for one or more of IL-17  
CC like protein is either activated or inactivated are useful for drug  
CC candidate screening. The present sequence is human IL-17 like  
CC protein mutant (Tyr141Phe).

CC Note: The present sequence is not shown in the specification, but is  
CC derived from the human IL-17 like protein referred to as SEQ ID NO:2  
CC (AAE08676), shown in figure 1A.

SQ Sequence 227 AA;

Query Match 98.7%; Score 1059; DB 22; Length 227;

Best Local Similarity 99.5%; Pred. No. 1.9e-107;

Matches 194; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 LLPGLFLTWLHTCLAHHDPSLRGPHSHGTPHCYSAEELPLGOAPPHLLARGAKWGQAL 62

Db 33 lllpgllflftwlhtclahhdpslrghphshgtphcysaeelpgqapphllargakwgqal 92

QY 63 PVALVSSLEAASRGHRRERSATQCPVLRPEEVLADTHQRSTSPWRYRVDTDDEYPO 122

Db 93 pvalvssleasrghrrersatqcpvlrpeevleadtqrsisprwrvdtdedrypq 152

QY 123 KLAFAECLRCGICIDARTGRETAALNSVRLQLSLVLRRRPCSRDGGSLPTPGAFARHTEF 182

Db 153 klafaeclrcgicidartgretaalnsvrlqlslvlrrrrpcsrddgslptpgafafhtef 212

QY 183 IHVPVGCTCVLPRSV 197

Db 213 ihvpvgctcvlprsv 227

## RESULT 19

AAE08679

ID AAE08679 standard; Protein; 227 AA.

AC AAE08679;

DT 15-NOV-2001 (first entry)

XX Human interleukin (IL)-17 like protein mutant (Leu47Nle).

XX Human; interleukin; IL-17 like protein; rheumatic disease; gene therapy;  
KW multiple sclerosis; graft versus host disease; inflammatory disease;  
KW asthma; autoimmune disease; allergy; graft rejection; bone destruction;  
KW drug screening; antiinflammatory; immunosuppressive; antidiabetic;  
KW neuroprotective; antirheumatic; antiallergic; mutant; muten.

XX Homo sapiens.

OS Synthetic.

XX Key Location/Qualifiers

FH Misc-difference 47

FT /label= Nle

FT /note= "Wild-type Leu substituted with Nle"

XX WO200159120-A2.

XX 16-AUG-2001.

XX 07-FEB-2001; 2001WO-US03916.

PR 08-FEB-2000; 2000US-0180864.

PR 27-NOV-2000; 2000US-0722920.

XX (AMGE-) AMGEN INC.

XX Jing S, Bass MB;

XX WPI; 2001-529841/58.

XX Novel interleukin-17 like polypeptides and nucleic acid molecules  
PT encoding them useful for diagnosis, prevention and treatment of  
PT inflammatory, autoimmune disease, allergies, asthma and organ or graft  
PT rejection

XX Claim 18; Page -; 117pp; English.

XX The present invention relates to interleukin (IL)-17 like polypeptides  
CC and nucleic acids encoding them. IL-17 like protein is useful for  
CC identifying binding partners, agonists and antagonists which can be used  
CC for treating one or more diseases or disorders and for cloning IL-17  
CC like receptors, using an expression cloning strategy. Radiolabelled or  
CC affinity/activity-tagged IL-17 proteins are useful in binding assays to  
CC identify a cell type or cell line or tissue that express IL-17 like  
CC receptors. A radiolabelled or tagged IL-17 like protein is useful as an  
CC affinity ligand to identify and isolate from an expression library the  
CC subset of cells which express the IL-17 like receptors on their surface.  
CC IL-17 like protein, agonist and antagonist are useful for treating acute  
CC and chronic inflammation such as rheumatic diseases, graft versus host  
CC disease and multiple sclerosis. IL-17 like antagonists are useful for  
CC treating and preventing inflammatory disease, autoimmune disease,  
CC allergies, asthma and organ or graft rejection in a patient and also  
CC for inhibiting T cell proliferation and/or activation, in vivo B cell  
CC proliferation or immunoglobulin secretion, and for blocking the effects  
CC of IL-17 in inducing bone destruction. IL-17 like molecule is useful in  
CC gene therapy and for mapping the location of the IL-17 like gene and  
CC related genes on chromosomes, as hybridisation probes in diagnostic  
CC assays. Non-human animals in which the promoter for one or more of IL-17  
CC like protein is either activated or inactivated are useful for drug  
CC candidate screening. The present sequence is human IL-17 like  
CC protein mutant (Leu47Nle).  
CC Note: The present sequence is not shown in the specification, but is  
CC derived from the human IL-17 like protein referred to as SEQ ID NO:2  
CC (AAE08676), shown in figure 1A.

XX Sequence 227 AA;

Query Match 98.6%; Score 1058; DB 22; Length 227;  
Best Local Similarity 99.5%; Pred. No. 2.4e-107;  
Matches 194; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 3 LLPGLLELTWLTCLAHHDPSLRGCHPHSHGTPHCYSAEELPLGQAPPHLLARGAKWGQAL 62  
Db 33 LLPGLLFTWLTCLAHHDPSLRGCHPHSHGTPHCYSAEELPLGQAPPHLLARGAKWGQAL 92  
Qy 63 PVALVSSLEAASHRGHRERPSATTQCPVLRPEEVLADTHQRTSPWRYRVDTDDEDRYPQ 122  
Db 93 PVALVSSLEAASHRGHRERPSATTQCPVLRPEEVLADTHQRTSPWRYRVDTDDEDRYPQ 152  
Qy 123 KLAFACLCRCGIDARTGRTETAAALNSVRLQLSLLVLRRRPCSRDGSGLPTPGAFATFTEF 182  
Db 153 klafaelcrgcidartgretaalnsrvllqslvlrrpcsrldgslptpgafafhtef 212  
Qy 183 IHVPVGCTCVLPRSV 197  
Db 213 ihvpvgctcvlprsv 227

RESULT 20  
AAE08683  
ID AAE08683 standard; Protein; 227 AA.

XX AAE08683;  
XX 15-NOV-2001 (first entry)

XX Human interleukin (IL)-17 like protein mutant (Leu47Ala).

XX Human; interleukin; IL-17 like protein; rheumatic disease; gene therapy;  
KW multiple sclerosis; graft versus host disease; inflammatory disease;  
KW asthma; autoimmune disease; allergy; graft rejection; bone destruction;  
KW drug screening; antiinflammatory; immunosuppressive; antiasthmatic;  
KW neuroprotective; antirheumatic; antiallergic; mutant; mutein.

XX Homo sapiens.  
OS Synthetic.

XX Key Location/Qualifiers

FT Misc-difference 47 /note= "Wild-type Leu substituted with Ala"  
FT XX  
PN WO200159120-A2.  
XX 16-AUG-2001.  
PD 07-FEB-2001; 2001WO-US03916.  
XX 08-FEB-2000; 2000US-0180864.  
PR 27-NOV-2000; 2000US-0722920.  
XX (AMGE-) AMGEN INC.  
PA Jing S, Bass MB;  
PI WPI; 2001-529841/58.  
DR Novel interleukin-17 like polypeptides and nucleic acid molecules  
XX encoding them useful for diagnosis, prevention and treatment of  
PT inflammatory, autoimmune disease, allergies, asthma and organ or graft  
PT rejection.  
XX Claim 18; Page -: 117pp; English.  
XX The present invention relates to interleukin (IL)-17 like polypeptides  
CC and nucleic acids encoding them. IL-17 like protein is useful for  
CC identifying binding partners, agonists and antagonists which can be used  
CC for treating one or more diseases or disorders and for cloning IL-17  
CC like receptors, using an expression cloning strategy. Radiolabelled or  
CC affinity/activity-tagged IL-17 proteins are useful in binding assays to  
CC identify a cell type or cell line or tissue that express IL-17 like  
CC receptors. A radiolabelled or tagged IL-17 like protein is useful as an  
CC affinity ligand to identify and isolate from an expression library the  
CC subset of cells which express the IL-17 like receptors on their surface.  
CC IL-17 like protein, agonist and antagonist are useful for treating acute  
CC and chronic inflammation such as rheumatic diseases, graft versus host  
CC disease and multiple sclerosis. IL-17 like antagonists are useful for  
CC treating and preventing inflammatory disease, autoimmune disease,  
CC allergies, asthma and organ or graft rejection in a patient and also  
CC for inhibiting T cell proliferation and/or activation, in vivo B cell  
CC proliferation or immunoglobulin secretion, and for blocking the effects  
CC of IL-17 in inducing bone destruction. IL-17 like molecule is useful in  
CC gene therapy and for mapping the location of the IL-17 like gene and  
CC related genes on chromosomes, as hybridisation probes in diagnostic  
CC assays. Non-human animals in which the promoter for one or more of IL-17  
CC like protein is either activated or inactivated are useful for drug  
CC candidate screening. The present sequence is human IL-17 like  
CC protein mutant (Leu47Ala).  
CC Note: The present sequence is not shown in the specification, but is  
CC derived from the human IL-17 like protein referred to as SEQ ID NO:2  
CC (AAE08676), shown in figure 1A.

XX Sequence 227 AA;

Query Match 98.6%; Score 1058; DB 22; Length 227;  
Best Local Similarity 99.5%; Pred. No. 2.4e-107;  
Matches 194; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 LLPGLLELTWLTCLAHHDPSLRGCHPHSHGTPHCYSAEELPLGQAPPHLLARGAKWGQAL 62  
Db 33 LLPGLLFTWLTCLAHHDPSLRGCHPHSHGTPHCYSAEELPLGQAPPHLLARGAKWGQAL 92  
Qy 63 PVALVSSLEAASHRGHRERPSATTQCPVLRPEEVLADTHQRTSPWRYRVDTDDEDRYPQ 122  
Db 93 PVALVSSLEAASHRGHRERPSATTQCPVLRPEEVLADTHQRTSPWRYRVDTDDEDRYPQ 152  
Qy 123 KLAFACLCRCGIDARTGRTETAAALNSVRLQLSLLVLRRRPCSRDGSGLPTPGAFATFTEF 182  
Db 153 klafaelcrgcidartgretaalnsrvllqslvlrrpcsrldgslptpgafafhtef 212  
Qy 183 IHVPVGCTCVLPRSV 197

Db 213 ihvpvgctcvlprsv 227

|||||

RESULT 21  
AAE08686  
ID AAE08686 standard; Protein; 227 AA.

AC AAE08686;

DT 15-NOV-2001 (first entry)

XX Human interleukin (IL)-17 like protein mutant (Tyr141Trp).

XX Human; interleukin; IL-17 like protein; rheumatic disease; gene therapy;  
XX multiple sclerosis; graft versus host disease; inflammatory disease;  
XX asthma; autoimmune disease; allergy; graft rejection; bone destruction;  
XX drug screening; antiinflammatory; immunosuppressive; antiasthmatic;  
XX neuroprotective; antirheumatic; antiallergic; mutant; mutein.

XX Homo sapiens.

OS Synthetic.

PH Key Location/Qualifiers

FT Misc-difference 141

XX /note= "Wild-type Tyr substituted with Trp"

XX WO200159120-A2.

XX 16-AUG-2001.

XX 07-FEB-2001; 2001WO-US03916.

XX 08-FEB-2000; 2000US-0180864.

XX 27-NOV-2000; 2000US-0722920.

XX (AMGE-) AMGEN INC.

XX Jing S, Bass MB;

XX WPI; 2001-529841/58.

XX Novel interleukin-17 like polypeptides and nucleic acid molecules  
PT encoding them useful for diagnosis, prevention and treatment of  
PT inflammatory, autoimmune disease, allergies, asthma and organ or graft  
PT rejection

XX Claim 20; Page -: 117pp; English.

XX The present invention relates to interleukin (IL)-17 like polypeptides  
CC and nucleic acids encoding them. IL-17 like protein is useful for  
CC identifying binding partners, agonists and antagonists which can be used  
CC for treating one or more diseases or disorders and for cloning IL-17  
CC like receptors, using an expression cloning strategy. Radiolabelled or  
CC affinity/activity-tagged IL-17 proteins are useful in binding assays to  
CC identify a cell type or cell line or tissue that express IL-17 like  
CC receptors. A radiolabelled or tagged IL-17 like protein is useful as an  
CC affinity ligand to identify and isolate from an expression library the  
CC subset of cells which express the IL-17 like receptors on their surface.  
CC IL-17 like protein, agonist and antagonist are useful for treating acute  
CC and chronic inflammation such as rheumatic diseases, graft versus host  
CC disease and multiple sclerosis. IL-17 like antagonists are useful for  
CC treating and preventing inflammatory disease, autoimmune disease,  
CC allergies, asthma and organ or graft rejection in a patient and also  
CC for inhibiting T cell proliferation and/or activation, in vivo B cell  
CC proliferation or immunoglobulin secretion, and for blocking the effects  
CC of IL-17 in inducing bone destruction. IL-17 like molecule is useful in  
CC gene therapy and for mapping the location of the IL-17 like gene and  
CC related genes on chromosomes, as hybridisation probes in diagnostic  
CC assays. Non-human animals in which the promoter for one or more of IL-17  
CC like protein is either activated or inactivated are useful for drug  
CC candidate screening. The present sequence is human IL-17 like  
CC protein mutant (Tyr141Trp).

CC Note: The present sequence is not shown in the specification, but is  
CC derived from the human IL-17 like protein referred to as SEQ ID NO:2  
CC (AAE08676), shown in figure 1A.

XX Sequence 227 AA;

Query Match 98.6%; Score 1058; DB 22; Length 227;  
Best Local Similarity 99.5%; Pred. No. 2.4e-107;  
Matches 194; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 LLPGLLELTWLHTCLAHHDPSLRGHPHSHGTPHCYSAEELPLGQAPPPLHARGAKWGQAL 62  
Db |||||||

QY 63 PVALVSSLEAAASHRGHRRPESATTCQPVLRPEEVLADTHQRSISPWRYRVDTDDEDRYPQ 122  
Db |||||||

QY 93 PVALVSSLEAAASHRGHRRPESATTCQPVLRPEEVLADTHQRSISPWRYRVDTDDEDRYPQ 152  
Db |||||||

QY 123 KLAFACLCRCGCDARTGRTAALNSVRLQLSLVLRRCRDSRGSLPTPGAFAFHTEF 182  
Db |||||||

QY 153 KLAFACLCRCGCDARTGRTAALNSVRLQLSLVLRRCRDSRGSLPTPGAFAFHTEF 212  
Db |||||||

QY 183 IHVPVGCTCVLPRSV 197  
Db |||||||

QY 213 IHVPVGCTCVLPRSV 227

RESULT 22

AAE08690

ID AAE08690 standard; Protein; 227 AA.

XX AAE08690;

XX 15-NOV-2001 (first entry)

XX Human interleukin (IL)-17 like protein mutant (Prol51Ala).

XX Human; interleukin; IL-17 like protein; rheumatic disease; gene therapy;  
XX multiple sclerosis; graft versus host disease; inflammatory disease;  
XX asthma; autoimmune disease; allergy; graft rejection; bone destruction;  
XX drug screening; antiinflammatory; immunosuppressive; antiasthmatic;  
XX neuroprotective; antirheumatic; antiallergic; mutant; mutein.

XX Homo sapiens.

OS Synthetic.

PH Key Location/Qualifiers

FT Misc-difference 151

XX /note= "Wild-type Pro substituted with Ala"

XX WO200159120-A2.

XX 16-AUG-2001.

XX 07-FEB-2001; 2001WO-US03916.

XX 08-FEB-2000; 2000US-0180864.

XX 27-NOV-2000; 2000US-0722920.

XX (AMGE-) AMGEN INC.

XX Jing S, Bass MB;

XX WPI; 2001-529841/58.

XX Novel interleukin-17 like polypeptides and nucleic acid molecules  
PT encoding them useful for diagnosis, prevention and treatment of  
PT inflammatory, autoimmune disease, allergies, asthma and organ or graft  
PT rejection

XX Claim 21; Page -: 117pp; English.

XX

CC The present invention relates to interleukin (IL)-17 like polypeptides  
CC and nucleic acids encoding them. IL-17 like protein is useful for  
CC identifying binding partners, agonists and antagonists which can be used  
CC for treating one or more diseases or disorders and for cloning IL-17  
CC like receptors, using an expression cloning strategy. Radiolabelled or  
CC affinity/activity-tagged IL-17 proteins are useful in binding assays to  
CC identify a cell type or cell line or tissue that express IL-17 like  
CC receptors. A radiolabelled or tagged IL-17 like protein is useful as an  
CC affinity ligand to identify and isolate from an expression library the  
CC subset of cells which express the IL-17 like receptors on their surface.  
CC IL-17 like protein, agonist and antagonist are useful for treating acute  
CC and chronic inflammation such as rheumatic diseases, graft versus host  
CC disease and multiple sclerosis. IL-17 like antagonists are useful for  
CC treating and preventing inflammatory disease, autoimmune disease,  
CC allergies, asthma and organ or graft rejection in a patient and also  
CC for inhibiting T cell proliferation and/or activation, in vivo B cell  
CC proliferation or immunoglobulin secretion, and for blocking the effects  
CC of IL-17 in inducing bone destruction. IL-17 like molecule is useful in  
CC gene therapy and for mapping the location of the IL-17 like gene and  
CC related genes on chromosomes, as hybridisation probes in diagnostic  
CC assays. Non-human animals in which the promoter for one or more of IL-17  
CC like protein is either activated or inactivated are useful for drug  
CC candidate screening. The present sequence is human IL-17 like  
CC protein mutant (Pro151Ala).  
CC Note: The present sequence is not shown in the specification, but is  
CC derived from the human IL-17 like protein referred to as SEQ ID NO:2  
CC (AAE08676), shown in figure 1A.  
XX  
SQ Sequence 227 AA;

Query Match 98.3%; Score 1055; DB 22; Length 227;  
Best Local Similarity 99.5%; Pred. No. 5.2e-107;  
Matches 194; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 3 LLPGLLFTLWLTCLAHDDPSLRGPHSHGTPHCYSAEELPLGOAPPHLLARGAKWGQAL 62  
DB 33 LLPGLLFTLWLTCLAHDDPSLRGPHSHGTPHCYSAEELPLGOAPPHLLARGAKWGQAL 92  
QY 63 PVALVSSLEAASHRGRHERPSATTQCPVLRPEEVEADTHQSRISPMWRYRVDDEDRYQ 122  
DB 93 PVALVSSLEAASHRGRHERPSATTQCPVLRPEEVEADTHQSRISPMWRYRVDDEDRYQ 152  
QY 123 KLAFAELCRLCGCIDARTGRETAAALNSVRLLOSLLVLRPPCSRDCGSLPTPGAFHTEF 182  
DB 153 klafaelcrlcgcidartgretaalnsrvllqslvlrrpcsrddsgslptpgafafhtef 212  
QY 183 IHVPVGGTCVLPVRSV 197  
DB 213 ihvpvgctcvlprsv 227

RESULT 23  
AAE08688  
ID AAE08688 standard; Protein; 227 AA.  
XX  
AC AAE08688;  
XX  
DT 15-NOV-2001 (first entry)  
XX  
DE Human interleukin (IL)-17 like protein mutant (Tyr141Thr).  
XX  
KW Human; interleukin; IL-17 like protein; rheumatic disease; gene therapy;  
KW multiple sclerosis; graft versus host disease; inflammatory disease;  
KW asthma; autoimmune disease; allergy; graft rejection; bone destruction;  
KW drug screening; antiinflammatory; immunosuppressive; antiasthmatic;  
KW neuroprotective; antirheumatic; antiallergic; mutant; mutetin.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
FH Key Location/Qualifiers  
FT Misc-difference 141

FT  
XX  
PN W0200159120-A2.  
XX  
PD 16-AUG-2001.  
XX  
PF 07-FEB-2001; 2001WO-US03916.  
XX  
PR 08-FEB-2000; 2000US-0180864.  
PR 27-NOV-2000; 2000US-0722920.  
XX  
PA (AMGE-) AMGEN INC.  
XX  
PI Jing S, Bass MB;  
XX  
XX WPI; 2001-529841/58.  
XX  
PT Novel interleukin-17 like polypeptides and nucleic acid molecules  
PT encoding them useful for diagnosis, prevention and treatment of  
PT inflammatory, autoimmune disease, allergies, asthma and organ or graft  
PT rejection  
XX  
PS Claim 20; Page -; 117pp; English.

CC The present invention relates to interleukin (IL)-17 like polypeptides  
CC and nucleic acids encoding them. IL-17 like protein is useful for  
CC identifying binding partners, agonists and antagonists which can be used  
CC for treating one or more diseases or disorders and for cloning IL-17  
CC like receptors, using an expression cloning strategy. Radiolabelled or  
CC affinity/activity-tagged IL-17 proteins are useful in binding assays to  
CC identify a cell type or cell line or tissue that express IL-17 like  
CC receptors. A radiolabelled or tagged IL-17 like protein is useful as an  
CC affinity ligand to identify and isolate from an expression library the  
CC subset of cells which express the IL-17 like receptors on their surface.  
CC IL-17 like protein, agonist and antagonist are useful for treating acute  
CC and chronic inflammation such as rheumatic diseases, graft versus host  
CC disease and multiple sclerosis. IL-17 like antagonists are useful for  
CC treating and preventing inflammatory disease, autoimmune disease,  
CC allergies, asthma and organ or graft rejection in a patient and also  
CC for inhibiting T cell proliferation and/or activation, in vivo B cell  
CC proliferation or immunoglobulin secretion, and for blocking the effects  
CC of IL-17 in inducing bone destruction. IL-17 like molecule is useful in  
CC gene therapy and for mapping the location of the IL-17 like gene and  
CC related genes on chromosomes, as hybridisation probes in diagnostic  
CC assays. Non-human animals in which the promoter for one or more of IL-17  
CC like protein is either activated or inactivated are useful for drug  
CC candidate screening. The present sequence is human IL-17 like  
CC protein mutant (Tyr141Thr).  
CC Note: The present sequence is not shown in the specification, but is  
CC derived from the human IL-17 like protein referred to as SEQ ID NO:2  
CC (AAE08676), shown in figure 1A.  
XX  
SQ Sequence 227 AA;

Query Match 98.2%; Score 1054; DB 22; Length 227;  
Best Local Similarity 99.5%; Pred. No. 6.7e-107;  
Matches 194; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 3 LLPGLLFTLWLTCLAHDDPSLRGPHSHGTPHCYSAEELPLGOAPPHLLARGAKWGQAL 62  
DB 33 LLPGLLFTLWLTCLAHDDPSLRGPHSHGTPHCYSAEELPLGOAPPHLLARGAKWGQAL 92  
QY 63 PVALVSSLEAASHRGRHERPSATTQCPVLRPEEVEADTHQSRISPMWRYRVDDEDRYQ 122  
DB 93 PVALVSSLEAASHRGRHERPSATTQCPVLRPEEVEADTHQSRISPMWRYRVDDEDRYQ 152  
QY 123 KLAFAELCRLCGCIDARTGRETAAALNSVRLLOSLLVLRPPCSRDCGSLPTPGAFHTEF 182  
DB 153 klafaelcrlcgcidartgretaalnsrvllqslvlrrpcsrddsgslptpgafafhtef 212  
QY 183 IHVPVGGTCVLPVRSV 197  
XXXXXXXXXXXXXXXXXXXX

Db 213 ihvpvgctcvlprsv 227

RESULT 24  
AAE08689  
ID AAE08689 standard; Protein; 227 AA.  
AC AAE08689;  
XX  
XX 15-NOV-2001 (first entry)  
XX Human interleukin (IL)-17 like protein mutant (Tyr141Ser).  
XX Human; interleukin; IL-17 like protein; rheumatic disease; gene therapy;  
KW multiple sclerosis; graft versus host disease; inflammatory disease;  
KW asthma; autoimmune disease; allergy; graft rejection; bone destruction;  
KW drug screening; antiinflammatory; immunosuppressive; antiasthmatic;  
KW neuroprotective; antirheumatic; antiallergic; mutant; mutein.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
XX Key Location/Qualifiers  
FT Misc-difference 141 /note= "Wild-type Tyr substituted with Ser"  
FT  
XX  
XX WO200159120-A2.  
XX  
XX PD 16-AUG-2001.  
XX  
XX PF 07-FEB-2001; 2001WO-US03916.  
XX  
XX PR 08-FEB-2000; 2000US-0180864.  
XX PR 27-NOV-2000; 2000US-0722920.  
XX  
XX PA (AMGE-) AMGEN INC.  
XX  
XX PI Jing S, Bass MB;  
XX WPI; 2001-529841/58.  
XX Novel interleukin-17 like polypeptides and nucleic acid molecules  
PT encoding them useful for diagnosis, prevention and treatment of  
PT inflammatory, autoimmune disease, allergies, asthma and organ or graft  
PT rejection  
XX  
XX Claim 20; Page -: 117pp; English.

The present invention relates to interleukin (IL)-17 like polypeptides and nucleic acids encoding them. IL-17 like protein is useful for identifying binding partners, agonists and antagonists which can be used for treating one or more diseases or disorders and for cloning IL-17 like receptors, using an expression cloning strategy. Radiolabelled or affinity/activity-tagged IL-17 proteins are useful in binding assays to identify a cell type or cell line or tissue that express IL-17 like receptors. A radiolabelled or tagged IL-17 like protein is useful as an affinity ligand to identify and isolate from an expression library the subset of cells which express the IL-17 like receptors on their surface. IL-17 like protein, agonist and antagonist are useful for treating acute and chronic inflammation such as rheumatic diseases, graft versus host disease and multiple sclerosis. IL-17 like antagonists are useful for treating and preventing inflammatory disease, autoimmune disease, allergies, asthma and organ or graft rejection, in vivo B cell for inhibiting T cell proliferation and/or activation, and for blocking the effects of IL-17 in inducing bone destruction. IL-17 like molecule is useful in gene therapy and for mapping the location of the IL-17 like gene and related genes on chromosomes, as hybridisation probes in diagnostic assays. Non-human animals in which the promoter for one or more of IL-17 like protein is either activated or inactivated are useful for drug candidate screening. The present sequence is human IL-17 like protein mutant (Tyr141Ser).

Note: The present sequence is not shown in the specification, but is

CC derived from the human IL-17 like protein referred to as SEQ ID NO:2  
CC (AAE08676), shown in figure 1A.  
XX  
SQ Sequence 227 AA;  
  
Query Match 98.2%; Score 1054; DB 22; Length 227;  
Best Local Similarity 99.5%; Pred. No. 6,7e-107;  
Matches 194; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
  
QY 3 LLPGLFLTWLHTCLAHDPSLRGHPHSHGTPHCYSAEELPLGQAPPHLLARGAKWGQAL 62  
DQ 33 LLPGLFLTWLHTCLAHDPSLRGHPHSHGTPHCYSAEELPLGQAPPHLLARGAKWGQAL 92  
QY 63 PVALVSSLEAAASHRGHRRPSATTQCPVLRPEEVLADTHQRSISPMWRYRVDDEDRYPQ 122  
DQ 93 PVALVSSLEAAASHRGHRRPSATTQCPVLRPEEVLADTHQRSISPMWRYRVDDEDRYPQ 152  
QY 123 KLFAECLRCGICDARTGRETAAALNSVRLQSLVLRPPCRDGSGLPTGPAFAHTEF 182  
DQ 153 KLFAECLRCGICDARTGRETAAALNSVRLQSLVLRPPCRDGSGLPTGPAFAHTEF 212  
QY 183 IHVPVGCTCVLPRSV 197  
DQ 213 IHVPVGCTCVLPRSV 227  
  
RESULT 25  
AAE08691  
ID AAE08691 standard; Protein; 227 AA.  
XX  
AC AAE08691;  
XX  
XX 15-NOV-2001 (first entry)  
XX Human interleukin (IL)-17 like protein mutant (Pro151Gly).  
XX  
XX Human; interleukin; IL-17 like protein; rheumatic disease; gene therapy;  
KW multiple sclerosis; graft versus host disease; inflammatory disease;  
KW asthma; autoimmune disease; allergy; graft rejection; bone destruction;  
KW drug screening; antiinflammatory; immunosuppressive; antiasthmatic;  
KW neuroprotective; antirheumatic; antiallergic; mutant; mutein.  
XX  
XX Homo sapiens.  
XX Synthetic.  
XX  
XX Key Location/Qualifiers  
FT Misc-difference 151 /note= "Wild-type Pro substituted with Gly"  
FT  
XX  
XX WO200159120-A2.  
XX  
XX PD 16-AUG-2001.  
XX  
XX PF 07-FEB-2001; 2001WO-US03916.  
XX  
XX PR 08-FEB-2000; 2000US-0180864.  
XX PR 27-NOV-2000; 2000US-0722920.  
XX  
XX (AMGE-) AMGEN INC.  
XX  
XX PI Jing S, Bass MB;  
XX WPI; 2001-529841/58.  
XX Novel interleukin-17 like polypeptides and nucleic acid molecules  
PT encoding them useful for diagnosis, prevention and treatment of  
PT inflammatory, autoimmune disease, allergies, asthma and organ or graft  
PT rejection  
XX  
XX Claim 21; Page -: 117pp; English.  
XX  
XX The present invention relates to interleukin (IL)-17 like polypeptides

CC and nucleic acids encoding them. IL-17 like protein is useful for  
CC identifying binding partners, agonists and antagonists which can be used  
CC for treating one or more diseases or disorders and for cloning IL-17  
CC like receptors, using an expression cloning strategy. Radiolabelled or  
CC affinity/activity-tagged IL-17 proteins are useful in binding assays to  
CC identify a cell type or cell line or tissue that express IL-17 like  
CC receptors. A radiolabelled or tagged IL-17 like protein is useful as an  
CC affinity ligand to identify and isolate from an expression library the  
CC subset of cells which express the IL-17 like receptors on their surface.  
CC IL-17 like protein, agonist and antagonist are useful for treating acute  
CC and chronic inflammation such as rheumatic diseases, graft versus host  
CC disease and multiple sclerosis. IL-17 like antagonists are useful for  
CC treating and preventing inflammatory disease, autoimmune disease,  
CC allergies, asthma and organ or graft rejection in a patient and also  
CC for inhibiting T cell proliferation and/or activation, in vivo B cell  
CC proliferation or immunoglobulin secretion, and for blocking the effects  
CC of IL-17 in inducing bone destruction. IL-17 like molecule is useful in  
CC gene therapy and for mapping the location of the IL-17 like gene and  
CC related genes on chromosomes, as hybridisation probes in diagnostic  
CC assays. Non-human animals in which the promoter for one or more of IL-17  
CC like protein is either activated or inactivated are useful for drug  
CC candidate screening. The present sequence is human IL-17 like  
CC protein mutant (Pro151Gly).  
CC Note: The present sequence is not shown in the specification, but is  
CC derived from the human IL-17 like protein referred to as SEQ ID NO:2  
CC (AAE08676), shown in figure 1A.  
XX  
SQ Sequence 227 AA;

Query Match 98.2%; Score 1054; DB 22; Length 227;  
Best Local Similarity 99.5%; Pred. No. 6.7e-107;  
Matches 194; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 3 LLPGLFLTLTLCIAHDDPSLRGHPHSGTGPCYSAEPLPGQAPPHLLARGAKWGQAL 62  
Db 33 LLPGLFLTLTLCIAHDDPSLRGHPHSGTGPCYSAEELPLGQAPPHLLARGAKWGQAL 92  
Qy 63 PVALVSSLEAASHRGHERPSPATTCQVLRPEEVLADTHORSISFWRVDTDDRYPQ 122  
Db 93 PVALVSSLEAASHRGHERPSPATTCQVLRPEEVLADTHORSISFWRVDTDDRYPQ 152  
Qy 123 KLAFAECLRCGICDARTGRETAAALNSVRLQLSLVLRPPCSRDGSLPTGCAFAFHTEF 182  
Db 153 KLAFAECLRCGICDARTGRETAAALNSVRLQLSLVLRPPCSRDGSLPTGCAFAFHTEF 212  
Qy 183 IHVPVGCCTCVLPSPV 197  
Db 213 IHVPVGCCTCVLPSPV 227

RESULT 26  
AAE08693  
ID AAE08693 standard; Protein: 227 AA.  
AC AAE08693;  
XX  
DT 15-NOV-2001 (first entry)  
XX  
DE Human interleukin (IL)-17 like protein mutant (Cys159Ala).  
XX  
KW Human; interleukin; IL-17 like protein; rheumatic disease; gene therapy;  
KW multiple sclerosis; graft versus host disease; inflammatory disease;  
KW asthma; autoimmune disease; allergy; graft rejection; bone destruction;  
KW drug screening; antinflammatory; immunosuppressive; antiasthmatic;  
KW neuroprotective; antirheumatic; antiallergic; mutant; mutein.  
OS Homo sapiens.  
OS Synthetic.  
XX  
FH Key Location/Qualifiers  
ET Misc-difference 159  
FT /note= "wild-type Cys substituted with Ala"

XX WO200159120-A2.  
PN  
XX 16-AUG-2001.  
PD  
XX 07-FEB-2001; 2001WO-US03916.  
XX  
PF 08-FEB-2000; 2000US-0180864.  
XX  
PR 27-NOV-2000; 2000US-0722920.  
XX  
XX (AMGE-) AMGEN INC.  
PA  
XX  
PI Jing S, Bass MB;  
XX  
XX WPI; 2001-529841/58.  
DR  
XX Novel interleukin-17 like polypeptides and nucleic acid molecules  
PT encoding them useful for diagnosis, prevention and treatment of  
PT inflammatory, autoimmune disease, allergies, asthma and organ or graft  
PT rejection  
PS  
XX Claim 22; Page -: 117pp; English.  
XX  
CC The present invention relates to interleukin (IL)-17 like polypeptides  
CC and nucleic acids encoding them. IL-17 like protein is useful for  
CC identifying binding partners, agonists and antagonists which can be used  
CC for treating one or more diseases or disorders and for cloning IL-17  
CC like receptors, using an expression cloning strategy. Radiolabelled or  
CC affinity/activity-tagged IL-17 proteins are useful in binding assays to  
CC identify a cell type or cell line or tissue that express IL-17 like  
CC receptors. A radiolabelled or tagged IL-17 like protein is useful as an  
CC affinity ligand to identify and isolate from an expression library the  
CC subset of cells which express the IL-17 like receptors on their surface.  
CC IL-17 like protein, agonist and antagonist are useful for treating acute  
CC and chronic inflammation such as rheumatic diseases, graft versus host  
CC disease and multiple sclerosis. IL-17 like antagonists are useful for  
CC treating and preventing inflammatory disease, autoimmune disease, also  
CC allergies, asthma and organ or graft rejection in a patient and also  
CC for inhibiting T cell proliferation and/or activation, in vivo B cell  
CC proliferation or immunoglobulin secretion, and for blocking the effects  
CC of IL-17 in inducing bone destruction. IL-17 like molecule is useful in  
CC gene therapy and for mapping the location of the IL-17 like gene and  
CC related genes on chromosomes, as hybridisation probes in diagnostic  
CC assays. Non-human animals in which the promoter for one or more of IL-17  
CC like protein is either activated or inactivated are useful for drug  
CC candidate screening. The present sequence is human IL-17 like  
CC protein mutant (Cys159Ala).  
CC Note: The present sequence is not shown in the specification, but is  
CC derived from the human IL-17 like protein referred to as SEQ ID NO:2  
CC (AAE08676), shown in figure 1A.  
XX  
SQ Sequence 227 AA;

Query Match 98.2%; Score 1054; DB 22; Length 227;  
Best Local Similarity 99.5%; Pred. No. 6.7e-107;  
Matches 194; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 3 LLPGLFLTLTLCIAHDDPSLRGHPHSGTGPCYSAEPLPGQAPPHLLARGAKWGQAL 62  
Db 33 LLPGLFLTLTLCIAHDDPSLRGHPHSGTGPCYSAEELPLGQAPPHLLARGAKWGQAL 92  
Qy 63 PVALVSSLEAASHRGHERPSPATTCQVLRPEEVLADTHORSISFWRVDTDDRYPQ 122  
Db 93 PVALVSSLEAASHRGHERPSPATTCQVLRPEEVLADTHORSISFWRVDTDDRYPQ 152  
Qy 123 KLAFAECLRCGICDARTGRETAAALNSVRLQLSLVLRPPCSRDGSLPTGCAFAFHTEF 182  
Db 153 KLAFAECLRCGICDARTGRETAAALNSVRLQLSLVLRPPCSRDGSLPTGCAFAFHTEF 212  
Qy 183 IHVPVGCCTCVLPSPV 197  
Db 213 IHVPVGCCTCVLPSPV 227









CC for treating one or more diseases or disorders and for cloning IL-17  
 CC like receptors, using an expression cloning strategy. Radiolabelled or  
 CC affinity/activity-tagged IL-17 proteins are useful in binding assays to  
 CC identify a cell type or cell line or tissue that express IL-17 like  
 CC receptors. A radiolabelled or tagged IL-17 like protein is useful as an  
 CC affinity ligand to identify and isolate from an expression library the  
 CC subset of cells which express the IL-17 like receptors on their surface.  
 CC IL-17 like protein, agonist and antagonist are useful for treating acute  
 CC and chronic inflammation such as rheumatic diseases, graft versus host  
 CC disease and multiple sclerosis. IL-17 like antagonists are useful for  
 CC treating and preventing inflammatory disease, autoimmune disease,  
 CC allergies, asthma and organ or graft rejection in a patient and also  
 CC for inhibiting T cell proliferation and/or activation, in vivo B cell  
 CC proliferation or immunoglobulin secretion, and for blocking the effects  
 CC of IL-17 in inducing bone destruction. IL-17 like molecule is useful in  
 CC gene therapy and for mapping the location of the IL-17 like gene and  
 CC related genes on chromosomes, as hybridisation probes in diagnostic  
 CC assays. Non-human animals in which the promoter for one or more of IL-17  
 CC like protein is either activated or inactivated are useful for drug  
 CC candidate screening. The present sequence is human IL-17 like  
 CC protein mutant (Cys221Ala).  
 CC Note: The present sequence is not shown in the specification, but is  
 CC derived from the human IL-17 like protein referred to as SEQ ID NO:2  
 CC (AAE08676), shown in figure 1A.

XX SQ Sequence 227 AA;

Query Match 98.2%; Score 1054; DB 22; Length 227;  
 Best Local Similarity 99.5%; Pred. No. 6.7e-107; Indels 0; Gaps 0;  
 Matches 194; Conservative 0; Mismatches 1;  
 Qy 3 LLPGLLFTLWLTCLAHDPDLRGRPHSHGTPHCYSABEPLGQAPPHLLARGAKWGQAL 62  
 Db 33 llpgllftlwtclahdpslrgphshgtpghcysaeelpgqapphllargakwgqal 92  
 Qy 63 PVALVSSLEAASHRGRHERPSATTQCPVLRPEEVLADTHORSISPWRYRVDTDDEDRYPQ 122  
 Db 93 pvalvssleaaashrgrherpsattqcpvlrpeevleadthgrsispwryrvdtdedrypq 152  
 Qy 123 KLAFACELCRGCDARTGRETAALNSVRLQSLVLRPPCRSDGSLPTPCAFAPAFHTEF 182  
 Db 153 klafaelcrgcidartgreetaalnsrvllqslvlrrppcsrdgslptpgafafhctef 212  
 Qy 183 IHVPVGCCTCVLPVRSV 197  
 Db 213 ihvpvgctcvlprsv 227

RESULT 32  
 AAE08692  
 ID AAE08692 standard; Protein; 227 AA.

XX AC AAE08692;

XX DT 15-NOV-2001 (first entry)

XX DE Human interleukin (IL)-17 like protein mutant (Cys159Ser).

XX KW Human; interleukin; IL-17 like protein; rheumatic disease; gene therapy;  
 KW multiple sclerosis; graft versus host disease; inflammatory disease;  
 KW asthma; autoimmune disease; allergy; graft rejection; bone destruction;  
 KW drug screening; antinflammatory; immunosuppressive; antiasthmatic;  
 KW neuroprotective; antirheumatic; antiallergic; mutant; mutein.

OS Homo sapiens.  
 OS Synthetic.

XX FH Key Location/Qualifiers  
 FT Misc-difference 159  
 FT /note= "Wild-type Cys substituted with Ser"

XX WO200159120-A2.

XX 16-AUG-2001.  
 PD 07-FEB-2001; 2001WO-US03916.  
 PF 08-FEB-2000; 2000US-0180864.  
 PR 27-NOV-2000; 2000US-0722920.  
 PR (AMGE-) AMGEN INC.  
 PA  
 PI Jing S. Bass MB;  
 XX WPI; 2001-529841/58.  
 DR Novel interleukin-17 like polypeptides and nucleic acid molecules  
 XX encoding them useful for diagnosis, prevention and treatment of  
 PT inflammatory, autoimmune disease, allergies, asthma and organ or graft  
 PT rejection -  
 PT  
 PS  
 XX Claim 22; Page -; 117pp; English.

CC The present invention relates to interleukin (IL)-17 like polypeptides  
 CC and nucleic acids encoding them. IL-17 like protein is useful for  
 CC identifying binding partners, agonists and antagonists which can be used  
 CC for treating one or more diseases or disorders and for cloning IL-17  
 CC like receptors, using an expression cloning strategy. Radiolabelled or  
 CC affinity/activity-tagged IL-17 proteins are useful in binding assays to  
 CC identify a cell type or cell line or tissue that express IL-17 like  
 CC receptors. A radiolabelled or tagged IL-17 like protein is useful as an  
 CC affinity ligand to identify and isolate from an expression library the  
 CC subset of cells which express the IL-17 like receptors on their surface.  
 CC IL-17 like protein, agonist and antagonist are useful for treating acute  
 CC and chronic inflammation such as rheumatic diseases, graft versus host  
 CC disease and multiple sclerosis. IL-17 like antagonists are useful for  
 CC treating and preventing inflammatory disease, autoimmune disease,  
 CC allergies, asthma and organ or graft rejection in a patient and also  
 CC for inhibiting T cell proliferation and/or activation, in vivo B cell  
 CC proliferation or immunoglobulin secretion, and for blocking the effects  
 CC of IL-17 in inducing bone destruction. IL-17 like molecule is useful in  
 CC gene therapy and for mapping the location of the IL-17 like gene and  
 CC related genes on chromosomes, as hybridisation probes in diagnostic  
 CC assays. Non-human animals in which the promoter for one or more of IL-17  
 CC like protein is either activated or inactivated are useful for drug  
 CC candidate screening. The present sequence is human IL-17 like  
 CC protein mutant (Cys159Ser).

CC Note: The present sequence is not shown in the specification, but is  
 CC derived from the human IL-17 like protein referred to as SEQ ID NO:2  
 CC (AAE08676), shown in figure 1A.

XX SQ Sequence 227 AA;

Query Match 98.1%; Score 1053; DB 22; Length 227;  
 Best Local Similarity 99.5%; Pred. No. 8.6e-107; Indels 0; Gaps 0;  
 Matches 194; Conservative 0; Mismatches 1;

Qy 3 LLPGLLFTLWLTCLAHDPDLRGRPHSHGTPHCYSABEPLGQAPPHLLARGAKWGQAL 62  
 Db 33 llpgllftlwtclahdpslrgphshgtpghcysaeelpgqapphllargakwgqal 92  
 Qy 63 PVALVSSLEAASHRGRHERPSATTQCPVLRPEEVLADTHORSISPWRYRVDTDDEDRYPQ 122  
 Db 93 pvalvssleaaashrgrherpsattqcpvlrpeevleadthgrsispwryrvdtdedrypq 152  
 Qy 123 KLAFACELCRGCDARTGRETAALNSVRLQSLVLRPPCRSDGSLPTPCAFAPAFHTEF 182  
 Db 153 klafaelcrgcidartgreetaalnsrvllqslvlrrppcsrdgslptpgafafhctef 212  
 Qy 183 IHVPVGCCTCVLPVRSV 197  
 Db 213 ihvpvgctcvlprsv 227

RESULT 33  
 AAE08694  
 ID AAE08694 standard; Protein; 227 AA.  
 XX AC AAE08694;  
 XX DT 15-NOV-2001 (first entry)  
 XX Human interleukin (IL)-17 like protein mutant (Cys161Ser).  
 DE DE  
 XX Human; interleukin; IL-17 like protein; rheumatic disease; gene therapy;  
 KW multiple sclerosis; graft versus host disease; inflammatory disease;  
 KW asthma; autoimmune disease; allergy; graft rejection; bone destruction;  
 KW drug screening; antiinflammatory; immunosuppressive; antiasthmatic;  
 KW neuroprotective; antirheumatic; antiallergic; mutant; mutein.  
 XX OS Homo sapiens.  
 OS Synthetic.  
 XX FH Key Location/Qualifiers  
 XX Misc-difference 161 /note= "Wild-type Cys substituted with Ser"  
 XX WO200159120-A2.  
 XX 16-AUG-2001.  
 XX 07-FEB-2001; 2001WO-US03916.  
 XX 08-FEB-2000; 2000US-0180864.  
 XX 27-NOV-2000; 2000US-0722920.  
 XX (AMGE-) AMGEN INC.  
 XX JIng S, Bass MB;  
 XX WPI; 2001-529841/58.  
 XX Novel interleukin-17 like polypeptides and nucleic acid molecules  
 PT encoding them useful for diagnosis, prevention and treatment of  
 PT inflammatory, autoimmune disease, allergies, asthma and organ or graft  
 PT rejection -  
 XX Claim 23; Page -; 117pp; English.  
 XX The present invention relates to interleukin (IL)-17 like polypeptides  
 CC and nucleic acids encoding them. IL-17 like protein is useful for  
 CC identifying binding partners, agonists and antagonists which can be used  
 CC for treating one or more diseases or disorders and for cloning IL-17  
 CC like receptors, using an expression cloning strategy. Radiolabelled or  
 CC affinity/activity-tagged IL-17 proteins are useful in binding assays to  
 CC identify a cell type or cell line or tissue that express IL-17 like  
 CC receptors. A radiolabelled or tagged IL-17 like protein is useful as an  
 CC affinity ligand to identify and isolate from an expression library the  
 CC subset of cells which express the IL-17 like receptors on their surface.  
 CC IL-17 like protein, agonist and antagonist are useful for treating acute  
 CC and chronic inflammation such as rheumatic diseases, graft versus host  
 CC disease and multiple sclerosis. IL-17 like antagonists are useful for  
 CC treating and preventing inflammatory disease, autoimmune disease,  
 CC allergies, asthma and organ or graft rejection in a patient and also  
 CC for inhibiting T cell proliferation and/or activation, in vivo B cell  
 CC proliferation or immunoglobulin secretion, and for blocking the effects  
 CC of IL-17 in inducing bone destruction. IL-17 like molecule is useful in  
 CC gene therapy and for mapping the location of the IL-17 like gene and  
 CC related genes on chromosomes, as hybridisation probes in diagnostic  
 CC assays. Non-human animals in which the promoter for one or more of IL-17  
 CC like protein is either activated or inactivated are useful for drug  
 CC candidate screening. The present sequence is human IL-17 like  
 CC protein mutant (Cys161Ser).  
 CC Note: The present sequence is not shown in the specification, but is  
 CC derived from the human IL-17 like protein referred to as SEQ ID NO:2  
 CC (AAE08676), shown in figure 1A.  
 XX

SQ Sequence 227 AA;  
 Query Match 98.1%; Score 1053; DB 22; Length 227;  
 Best Local Similarity 99.5%; Pred. No. 8.6e-107;  
 Matches 194; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 3 LLPGLFLTWLHTCLAHDPSSLRGHPHSHGTPHCYSAEELPLGQAPPHLLARGAKWQAL 62  
 DB 33 LLPGLFLTWLHTCLAHDPSSLRGHPHSHGTPHCYSAEELPLGQAPPHLLARGAKWQAL 92  
 QY 63 PVALVSSLEAASHRGHERPSATTQCPVLPEEVLEADTHQRSISPWRYRVDDDEDPQ 122  
 DB 93 PVALVSSLEAASHRGHERPSATTQCPVLPEEVLEADTHQRSISPWRYRVDDDEDPQ 152  
 QY 123 KLAFAECLRCGCDARTGRTAALNSVRLQLSLVLRERRPCSRDGSGLPTPGAFAPHTF 182  
 DB 153 KLAFAECLRCGCDARTGRTAALNSVRLQLSLVLRERRPCSRDGSGLPTPGAFAPHTF 212  
 QY 183 IHVPVGCTCVLPRSV 197  
 DB 213 ihvpvgctcvlprsv 227  
 RESULT 34  
 AAE08696  
 ID AAE08696 standard; Protein; 227 AA.  
 XX AC AAE08696;  
 XX DT 15-NOV-2001 (first entry)  
 XX Human interleukin (IL)-17 like protein mutant (Cys164Ser).  
 DE DE  
 XX Human; interleukin; IL-17 like protein; rheumatic disease; gene therapy;  
 KW multiple sclerosis; graft versus host disease; inflammatory disease;  
 KW asthma; autoimmune disease; allergy; graft rejection; bone destruction;  
 KW drug screening; antiinflammatory; immunosuppressive; antiasthmatic;  
 KW neuroprotective; antirheumatic; antiallergic; mutant; mutein.  
 XX OS Homo sapiens.  
 OS Synthetic.  
 XX FH Key Location/Qualifiers  
 XX Misc-difference 164 /note= "Wild-type Cys substituted with Ser"  
 XX WO200159120-A2.  
 XX 16-AUG-2001.  
 XX 07-FEB-2001; 2001WO-US03916.  
 XX 08-FEB-2000; 2000US-0180864.  
 XX 27-NOV-2000; 2000US-0722920.  
 XX (AMGE-) AMGEN INC.  
 XX JIng S, Bass MB;  
 XX WPI; 2001-529841/58.  
 XX Novel interleukin-17 like polypeptides and nucleic acid molecules  
 PT encoding them useful for diagnosis, prevention and treatment of  
 PT inflammatory, autoimmune disease, allergies, asthma and organ or graft  
 PT rejection -  
 XX Claim 24; Page -; 117pp; English.  
 XX The present invention relates to interleukin (IL)-17 like polypeptides  
 CC and nucleic acids encoding them. IL-17 like protein is useful for  
 CC identifying binding partners, agonists and antagonists which can be used  
 CC for treating one or more diseases or disorders and for cloning IL-17

like receptors, using an expression cloning strategy. Radiolabelled or affinity/activity-tagged IL-17 proteins are useful in binding assays to identify a cell type or cell line or tissue that express IL-17 like receptors. A radiolabelled or tagged IL-17 like protein is useful as an affinity ligand to identify and isolate from an expression library the subset of cells which express the IL-17 like receptors on their surface. IL-17 like protein, agonist and antagonist are useful for treating acute and chronic inflammation such as rheumatic diseases, graft versus host disease and multiple sclerosis. IL-17 like antagonists are useful for treating and preventing inflammatory disease, autoimmune disease, allergies, asthma and organ or graft rejection in a patient and also for inhibiting T cell proliferation and/or activation, in vivo B cell proliferation or immunoglobulin secretion, and for blocking the effects of IL-17 in inducing bone destruction. IL-17 like molecule is useful in gene therapy and for mapping the location of the IL-17 like gene and related genes on chromosomes, as hybridisation probes in diagnostic assays. Non-human animals in which the promoter for one or more of IL-17 like protein is either activated or inactivated are useful for drug candidate screening. The present sequence is human IL-17 like protein mutant (Cys164Ser). Note: The present sequence is not shown in the specification, but is derived from the human IL-17 like protein referred to as SEQ ID NO:2 (AAE08676), shown in figure 1A.

PD		16-AUG-2001.	
XX	FF	07-FEB-2001; 2001WO-US03916.	
XX	PR	08-FEB-2000; 2000US-0180864.	
XX	PR	27-NOV-2000; 2000US-072290.	
XX	PA	(AMGE-) AMGEN INC.	
XX	PI	Jing S, Bass MB;	
XX	PI	WFI; 2001-529841/58.	
DR			
XX		Novel interleukin-17 like polypeptides and nucleic acid molecules encoding them useful for diagnosis, prevention and treatment of inflammatory, autoimmune disease, allergies, asthma and organ or graft rejection	
XX	Claim 25; Page -; 117pp; English.		
XX	The present invention relates to interleukin (IL)-17 like polypeptides and nucleic acids encoding them. IL-17 like protein is useful for identifying binding partners, agonists and antagonists which can be used for treating one or more diseases or disorders and for cloning IL-17 like receptors, using an expression cloning strategy. Radiolabelled or affinity/activity-tagged IL-17 proteins are useful in binding assays to identify a cell type or cell line or tissue that express IL-17 like receptors. A radiolabelled or tagged IL-17 like protein is useful as an affinity ligand to identify and isolate from an expression library the subset of cells which express the IL-17 like receptors on their surface. IL-17 like protein, agonist and antagonist are useful for treating acute IL-17 like inflammation such as rheumatic diseases, graft versus host disease and multiple sclerosis. IL-17 like antagonists are useful for treating and preventing inflammatory disease, autoimmune disease, allergies, asthma and organ or graft rejection in a patient and also for inhibiting T cell proliferation and/or activation, in vivo B cell proliferation or immunoglobulin secretion, and for blocking the effects of IL-17 in inducing bone destruction. IL-17 like molecule is useful in gene therapy and for mapping the location of the IL-17 like gene and related genes on chromosomes, as hybridisation probes in diagnostic assays. Non-human animals in which the promoter for one or more of IL-17 like protein is either activated or inactivated are useful for drug candidate screening. The present sequence is human IL-17 like protein mutant (Cys193Ser).		
CC	Note:	The present sequence is not shown in the specification, but is derived from the human IL-17 like protein referred to as SEQ ID NO:2 (AAE08676), shown in figure 1A.	
XX	Sequence	227 AA;	
SQ			
	Query Match	98.1%; Score 1053; DB 22; Length 227;	
	Best Local Similarity	99.5%; Pred. No. 8.6e-107;	
	Matches 194; Conservative	0; Mismatches 1; Indels 0; Gaps 0;	
QY	3	LLPGLLEFLTLWHTCLAHHDPSLRGPHSHGTHPCYSAEELPLGQAPPHLLARGAKWGQAL	62
DB	33	llpgllfltlwhtclahhdpslrghshgthpcysaeelpgqapphlargakwgqal	92
QY	63	PVALVSSLEAASHRGHRRSPATTCQPVLPREEVLEADTHORSTISPNRYRVDTDEDYPQ	122
DB	93	pvalvssleaaashrghrherpsattcqpvlrpeevleadhqrsispwryrvdtdedryp	152
QY	123	KLAFAECLRCGCDIARTGRETPAALNSVRLLOSLLVLRRRSCSDSGLPTPGFAFHTEF	182
DB	153	klafaeclrcgcidartgretpaalnsvrllqslvlrrrprrsdsglptpgfafafhte	212
QY	183	IHPVGCTCVLPVRSV	197
DB	213	ihipvgctcvlpvrsv	227
RESULT	36		

AAE08700  
ID AAE08700 standard; Protein; 227 AA.  
AC AAE08700;  
XX  
XX 15-NOV-2001 (first entry)  
DF Human interleukin (IL)-17 like protein mutant (Cys219Ser).  
DE  
DE  
XX  
XX Human; interleukin; IL-17 like protein; rheumatic disease; gene therapy;  
KW multiple sclerosis; graft versus host disease; inflammatory disease;  
KW asthma; autoimmune disease; allergy; graft rejection; bone destruction;  
KW drug screening; antiinflammatory; immunosuppressive; antiasthmatic;  
KW neuroprotective; antirheumatic; antiallergic; mutant; mutein.  
XX  
XX Homo sapiens.  
OS Synthetic.  
OS  
XX  
XX Key Location/Qualifiers  
FH Misc-difference 219 /note= "Wild-type Cys substituted with Ser"  
FT  
FT  
XX  
XX WO200159120-A2.  
XX  
XX 16-AUG-2001.  
XX  
XX 07-FEB-2001; 2001WO-US03916.  
XX  
XX 08-FEB-2000; 2000US-0180864.  
PR 27-NOV-2000; 2000US-0722920.  
PR  
XX (AMGE-) AMGEN INC.  
XX  
XX Jing S, Bass MB;  
PI WPI; 2001-529841/58.  
XX  
XX Novel interleukin-17 like polypeptides and nucleic acid molecules  
PT encoding them useful for diagnosis, prevention and treatment of  
PT inflammatory, autoimmune disease, allergies, asthma and organ or graft  
PT rejection  
XX  
XX Claim 26; Page -; 117pp; English.  
XX  
XX The present invention relates to interleukin (IL)-17 like polypeptides  
CC and nucleic acids encoding them. IL-17 like protein is useful for  
CC identifying binding partners, agonists and antagonists which can be used  
CC for treating one or more diseases or disorders and for cloning IL-17  
CC like receptors, using an expression cloning strategy. Radiolabelled or  
CC affinity/activity-tagged IL-17 proteins are useful in binding assays to  
CC identify a cell type or cell line or tissue that express IL-17 like  
CC receptors. A radiolabelled or tagged IL-17 like protein is useful as an  
CC affinity ligand to identify and isolate from an expression library the  
CC subset of cells which express the IL-17 like receptors on their surface.  
CC IL-17 like protein, agonist and antagonist are useful for treating acute  
CC and chronic inflammation such as rheumatic diseases, graft versus host  
CC disease and multiple sclerosis. IL-17 like antagonists are useful for  
CC treating and preventing inflammatory disease, autoimmune disease,  
CC allergies, asthma and organ or graft rejection in a patient and also  
CC for inhibiting T cell proliferation and/or activation, in vivo B cell  
CC proliferation or immunoglobulin secretion, and for blocking the effects  
CC of IL-17 in inducing bone destruction. IL-17 like molecule is useful in  
CC gene therapy and for mapping the location of the IL-17 like gene and  
CC related genes on chromosomes, as hybridisation probes in diagnostic  
CC assays. Non-human animals in which the promoter for one or more of IL-17  
CC like protein is either activated or inactivated are useful for drug  
CC candidate screening. The present sequence is human IL-17 like  
CC protein mutant (Cys219Ser).  
CC Note: The present sequence is not shown in the specification, but is  
CC derived from the human IL-17 like protein referred to as SEQ ID NO:2  
CC (AAE08676), shown in figure 1A.  
XX  
XX Sequence 227 AA;

Query Match 98.1%; Score 1053; DB 22; Length 227;  
Best Local Similarity 99.5%; Pred. No. 8,6e-107;  
Matches 194; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 3 LLPGLLFTWLHTCLAHHDPSLRGHPHSHGTPHCYSAEELPLGQAPPHLLARGAKWGOAL 62  
DB 33 llpgllflftwlhtclahhdpslrghphshgtphcysaeelpgqapphillargakwggal 92  
QY 63 PVALVSSLEAASHRGHERPSATTTQCPVLRPEEVLEADTHQRSISPRRYRVDTDEDYPO 122  
DB 93 pvalvssleaashrgherpsattqcpvlrpeevleadthqrsispryrvdtdedrypq 152  
QY 123 KLAFAECLRCGICDARTGRTAALNSVRLQSLVLRRCPCSRDGSGLPTPGAFAFHTEF 182  
DB 153 klafaeclrcgcidartgretaalnsvrlqslvlrrpcsrdsrgslptpgafafafitef 212  
QY 183 IHVPVGCTCVLPRSV 197  
DB 213 ihvpvgstcvlprsv 227  
RESULT 37  
AAE08702  
ID AAE08702 standard; Protein; 227 AA.  
XX  
AC AAE08702;  
XX  
XX 15-NOV-2001 (first entry)  
DE Human interleukin (IL)-17 like protein mutant (Cys221Ser).  
XX  
XX Human; interleukin; IL-17 like protein; rheumatic disease; gene therapy;  
KW multiple sclerosis; graft versus host disease; inflammatory disease;  
KW asthma; autoimmune disease; allergy; graft rejection; bone destruction;  
KW drug screening; antiinflammatory; immunosuppressive; antiasthmatic;  
KW neuroprotective; antirheumatic; antiallergic; mutant; mutein.  
XX  
XX Homo sapiens.  
OS Synthetic.  
OS  
XX  
XX Key Location/Qualifiers  
FH Misc-difference 221 /note= "Wild-type Cys substituted with Ser"  
FT  
FT  
XX  
XX WO200159120-A2.  
XX  
XX 16-AUG-2001.  
XX  
XX 07-FEB-2001; 2001WO-US03916.  
XX  
XX 08-FEB-2000; 2000US-0180864.  
PR 27-NOV-2000; 2000US-0722920.  
PR  
XX (AMGE-) AMGEN INC.  
XX  
XX Jing S, Bass MB;  
PI WPI; 2001-529841/58.  
XX  
XX Novel interleukin-17 like polypeptides and nucleic acid molecules  
PT encoding them useful for diagnosis, prevention and treatment of  
PT inflammatory, autoimmune disease, allergies, asthma and organ or graft  
PT rejection  
XX  
XX Claim 26; Page -; 117pp; English.  
XX  
XX The present invention relates to interleukin (IL)-17 like polypeptides  
CC and nucleic acids encoding them. IL-17 like protein is useful for  
CC identifying binding partners, agonists and antagonists which can be used  
CC for treating one or more diseases or disorders and for cloning IL-17  
CC like receptors, using an expression cloning strategy. Radiolabelled or  
CC affinity/activity-tagged IL-17 proteins are useful in binding assays to  
CC identify a cell type or cell line or tissue that express IL-17 like  
CC receptors. A radiolabelled or tagged IL-17 like protein is useful as an  
CC affinity ligand to identify and isolate from an expression library the  
CC subset of cells which express the IL-17 like receptors on their surface.  
CC IL-17 like protein, agonist and antagonist are useful for treating acute  
CC and chronic inflammation such as rheumatic diseases, graft versus host  
CC disease and multiple sclerosis. IL-17 like antagonists are useful for  
CC treating and preventing inflammatory disease, autoimmune disease,  
CC allergies, asthma and organ or graft rejection in a patient and also  
CC for inhibiting T cell proliferation and/or activation, in vivo B cell  
CC proliferation or immunoglobulin secretion, and for blocking the effects  
CC of IL-17 in inducing bone destruction. IL-17 like molecule is useful in  
CC gene therapy and for mapping the location of the IL-17 like gene and  
CC related genes on chromosomes, as hybridisation probes in diagnostic  
CC assays. Non-human animals in which the promoter for one or more of IL-17  
CC like protein is either activated or inactivated are useful for drug  
CC candidate screening. The present sequence is human IL-17 like  
CC protein mutant (Cys219Ser).  
CC Note: The present sequence is not shown in the specification, but is  
CC derived from the human IL-17 like protein referred to as SEQ ID NO:2  
CC (AAE08676), shown in figure 1A.  
XX  
XX Sequence 227 AA;



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RESULT 39
AAY53890
ID AAY53890 standard; Protein; 87 AA.
XX
AC AAY53890;
XX
DT 13-MAR-2000 (first entry)
XX
DE Partial amino acid sequence of human interleukin-21.
XX
KW Human; interleukin-21; IL-21; IL-22; immune system disorder;
KW immune cell chemotaxis; haematopoietic cell disorder;
KW haemostatic activity; thrombolytic activity; autoimmune disorder; asthma;
KW allergic asthma; respiratory problem; organ rejection;
KW graft-versus-host disease; GVHD; inflammation;
KW hyperproliferative disorder; tissue regeneration;
KW embryonic stem cell differentiation; embryonic stem cell proliferation;
KW haematopoietic lineage.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Domain 3..11 /note= "conserved domain I"
FT Domain 19..24 /note= "conserved domain II"
FT Domain 46..52 /note= "conserved domain III"
FT Domain 75..82 /note= "conserved domain IV"
FT FT
FT FT
XX WO9961617-A1.
XX
PN
XX
PD 02-DEC-1999.
XX
PF 27-MAY-1999; 99WO-US11644.
XX
PR 29-MAY-1998; 98US-0087340.
PR 10-SEP-1998; 98US-0099805.
PR 30-APR-1999; 99US-0131965.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
XX
PI Ruben SM, Ebner R;
XX
DR WPI: 2000-072622/06.
DR N-PSDB; AA236834.
XX
XX Novel polynucleotides used to develop products for treating e.g. immune
PT disorders, blood disorders, autoimmune disorders, allergies,
PT inflammation, hyperproliferative disorders or infections -
XX
PS Claim 25; Fig 1; 170pp; English.
XX
CC The present sequence represents a partial human interleukin-21 (IL-21)
CC protein. The specification also describes IL-22 polynucleotides and
CC polypeptides. The IL-21 polynucleotide was isolated from a cDNA library
CC of apoptotic T-cells. IL-21 and IL-22 may be useful in treating
CC deficiencies or disorders of the immune system, by activating or
CC inhibiting the proliferation, differentiation, or mobilization
CC (chemotaxis) of immune cells, treating or detecting deficiencies or
CC disorders of haematopoietic cells, to modulate haemostatic or
CC thrombolytic activity, in treating or detecting autoimmune disorders,
CC treating asthma (particularly allergic asthma) or other respiratory
CC problems, to treat and/or prevent organ rejection or graft-versus-host
CC disease (GVHD), to modulate inflammation, to treat or detect
CC hyperproliferative disorders, to treat or detect infectious agents, to
CC differentiate, proliferate and attract cells, leading to the regeneration
CC of tissues, IL-21 and IL-22 may also increase or decrease the
CC differentiation or proliferation of embryonic stem cells and
CC haematopoietic lineage, may be used to modulate mammalian
CC characteristics.
XX
SQ Sequence 87 AA;
XX
XX Query Match 42.8%; Score 459; DB 21; Length 87;
XX Best Local Similarity 100.0%; Pred. No. 2.le-42;
XX Matches 86; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
OY 112 RVDTDSDRYPKLAFACELCGCIDARTGRTAALNSVRLQLLVLRPPCSRDGSLP 171
DB 2 rrvtdedryppqklafaeclcgcidartgretaalnsrvllqslvlrrpccrdsgslp 61
OY 172 TPGAFAFHTEFIHVPVGCCTVLP RSV 197
DB 62 tpgafafhtefihvpvgctcvlprsv 87
XX
RESULT 40
AAG66119
ID AAG66119 standard; Protein; 87 AA.
XX
AC AAG66119;
XX
DT 13-MAR-2002 (first entry)
XX
DE Human interleukin (IL)-21 partial amino acid sequence.
XX
KW Interleukin; IL-21; IL-22; immunosuppressive; cytostatic; thrombolytic;
KW antiinflammatory; antibacterial; gene therapy; human.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Domain 3..11 /note= "conserved domain I"
FT Domain 19..24 /note= "conserved domain II"
FT Domain 46..52 /note= "conserved domain III"
FT Domain 75..82 /note= "conserved domain IV"
FT FT
FT FT
XX US2001023070-A1.
XX
PN
XX
PD 20-SEP-2001.
XX
PF 08-DEC-2000; 2000US-0731816.
XX
PR 29-MAY-1998; 98US-087340P.
PR 30-APR-1999; 99US-131965P.
PR 09-DEC-1999; 99US-169837P.
PR 27-MAY-1999; 99US-0320713.
PR 27-MAY-1999; 99WO-US11644.
XX
XX (EBNE/) EBNER R.
XX (RUBE/) RUBEN S M.
XX
PI Ebner R, Ruben SM;
XX
DR WPI: 2001-638470/73.
DR N-PSDB; AA167876.
XX
XX New interleukin-21 and interleukin-22 polynucleotides and polypeptides,
XX useful for treating, preventing or diagnosing e.g. disorders of
XX hematopoietic cells, autoimmune disorders, or hyperproliferative
XX diseases -
XX
PS Claim 25; Fig 1; 87pp; English.
XX
CC The invention relates to novel human proteins designated interleukin
CC (IL)-21 and IL-22. The IL-21 and IL-22 polynucleotides can be used in
CC linkage analysis as a marker for those specific chromosome, in chromosome
CC mapping, to control gene expression through triple helix formation or
CC antisense DNA or RNA, in gene therapy, in identifying individuals from

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